CARBON FARM PLAN

McKenzie Table Mountain Preserve

Prepared by:



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Signature Page

The Carbon Farm Plan is an important part of the conservation management system for your fertilized crop and/or pastureland. This Carbon Farm Plan documents the planning decisions and operation and maintenance information for carbon farming on the planned land units.

NRCS Client Name: McKenzie Preserve Facility / Ranch: McKenzie Preserve Contact Information: Physical Address and phone (if different): 22477 Auberry Rd, Street Address: PO Box 691 Clovis, CA 93619 Mariposa, CA 9538 City, State, Zip: (209) 742-5556 Phone: (209) 742-5556 I identify as a Socially Disadvantaged Farmer or Rancher (SDFR) as defined by the CDFA. Total Cropland Acreage (Owned/Leased) Included in Plan: 2,960 acres. **Table Mountain Preserve** Operation Type: Client Initial Management Objectives: Mackenzie Preserve is looking to improve rangeland by implementing practices that allow them to increase soil carbon, native plant species planting, removal of invasive plant species, prescribed grazing implementation, and installation of structures to reduce runoff. I, as the decision-maker for the Rangeland covered by this Carbon Farm Plan (CFP), confirm my involvement in the planning process. I agree that each item and practice listed in the CFP's elements are desired and will meet my management and conservation goals. I am aware that I am responsible for maintaining all necessary records related to the implementation of this plan. It is my intention to pursue funding for implementation of this CFP, to complete practices as outlined in the plan. 9/9/2024 Signature: Name: Bridget Fithian As a certified CFP Planner, I certify that I have reviewed both the CFP and supporting documentation for technical adequacy, and the elements of the documents are technically compatible, reasonable, and can be implemented. Signature: Date: Name: <u>Harol Gonzalez Gallardo</u> Certification Credentials: TSP #21-23594 Title: Technical Service Provider

Introduction

Carbon is an essential element for all life and understanding how it moves helps with comprehending the biological processes and factors that influence it. One form of carbon is the greenhouse gas carbon dioxide, (CO₂). Increased levels of CO₂ insulate the Earth, causing temperatures to rise. Understanding how CO₂ is absorbed then released into the Earth's atmosphere helps us learn more about the climate and predict global warming.

Carbon is crucial to soil function and productivity, as it is a primary component of healthy soil conditions. Soil management plays a critical role in determining whether the carbon remains in the soil or is released into the atmosphere. Agricultural practices can affect both the amount and composition of soil organic carbon, which in turn impacts the physical, biological, and chemical condition of the soil, as well as overall soil health. Farm practices can influence carbon levels, which in turn affects agricultural productivity and resilience, and the carbon cycle itself. Soil has the capacity to hold more carbon than the atmosphere and vegetation combined, and for longer periods of time. This has led people to explore soil carbon as an opportunity to mitigate and adapt to climate change, as well as address ecosystem functions. For example, a type of ecosystem is grasslands, which are empty spaces for livestock production or flyover land between urban areas. Grasslands play a significant role in the composition of the atmosphere, with greater potential than fossil fuels, they can accumulate carbon, rather than just releasing it into the atmosphere.

Importance of Soil Organic Carbon

The agricultural sector can have a significant impact on the carbon cycle, through the release of carbon and the sequestration of carbon. However, farmers have a vested interest in retaining and increasing soil organic carbon levels for their individual fields. This is because higher soil organic carbon promotes soil structure or tilth, which leads to greater physical stability. This improvement boosts soil aeration (oxygen in the soil) and water drainage and retention, reduces the risk of erosion and nutrient leaching, and enhances the chemical composition and biological productivity of the soil, including fertility and nutrient holding capacity. As carbon stores in the soil increase, carbon is "sequestered," and the risk of losing other nutrients through erosion and leaching is reduced. An increase in soil organic carbon typically leads to a more stable carbon cycle and enhanced overall agricultural productivity. On the other hand, physical disturbances of the soil can lead to a net loss of carbon into the surrounding environment due to the formation of CO₂.

Carbon Farm Planning

The Carbon Farming framework advances land management practices known to enhance the rate at which CO_2 is removed from the atmosphere and converted into plant material and soil organic matter. A Carbon Farm Plan (CFP) is a whole-farm assessment that embodies all the opportunities for carbon sequestration as well as evaluating co-benefits, from increased productivity, water retention, and biodiversity to greater drought and climate resiliency on a particular farm or ranch. A set of online tools (including COMET-Planner) allows the quantification of greenhouse gas (GHG) benefits associated with each land management practice. A completed CFP provides the producer with a portfolio of recommended land management practices and an estimation of benefits and costs.

Carbon farming combines cutting-edge agricultural practices with the tools of ecological design to build healthy soil and profitable farms and ranches, as well as improve the rate at which carbon dioxide is removed from the atmosphere and converted to plant material and/or soil organic matter. CFPs can be developed for natural and working lands including rangelands, forests, croplands, and orchards.

Steps to creating a CFP include the use of Natural Resources Conservation Service (NRCS) COMET-Planner and COMET-Farm tools for preliminary calculations of the carbon sequestration potential of land management practices

Landowner and Property Information

Sierra Foothill Conservancy

Sierra Foothill Conservancy (SFC) a 501(c)(3) Nonprofit Land Trust established in 1996. Accredited by the Land Trust Accreditation Commission, August 2014, whose objectives are to protect wildlife & conserve native flora and historic rangelands, provide educational and recreational opportunities for the community, promote biodiversity and scientific study of foothill ecosystems and maintain open space and beautiful vistas.

MISSION

The grasslands, foothills, and forests between Yosemite and Kings Canyon National Parks provide land for farms and ranches, a home for native plants and wildlife, and a source of clean water.

Sierra Foothill Conservancy honors their natural and cultural heritage by protecting these resources and ensuring that present and future generations will continue to experience and enjoy the land in this region.

VISION

From the snow-capped Sierra to the Central Valley floor, expansive landscapes, important habitats, and clean water resources are conserved and managed to ensure continuing public benefits. SFC supports a thriving land-based economy while promoting a conservation ethic that spans generations.



Figure 1 Sierra Foothill Map

Ruth McKenzie Table Mountain Preserve

The Ruth McKenzie Table Mountain Preserve (Preserve) is 2960 acres, and located between Friant and Prather, on the north side of Auberry Road. Vegetation consists primarily of annual grassland and blue oak woodland that slopes upwards towards the basalt lava table lands that give the Preserve its name. Most hikes on the Preserve include a climb to the top of the table formation, where visitors can enjoy majestic views of the San Joaquin River drainage and the Sierra Nevada mountains.

History

The Preserve was acquired in trust from The Nature Conservancy (TNC) in 1998. The Preserve had previously been placed in a trust by its owner, Ruth McKenzie, a descendant from an early Fort Miller pioneer family who wanted the Preserve to remain in ranching and open space in perpetuity. After Ruth's passing, she left 2,000 acres and a considerable amount of money to TNC for the long-term conservation of the property.

Habitat

The Preserve includes a significant portion of one of the flat-topped tables that are visible from the road. In spring, rainwater collects in the table's low spots, forming vernal pools and because the basalt is impermeable, these pools can hold water for several weeks to months until they evaporate. These pools provide habitat for a variety of highly specialized vernal pool species, including rare plants, amphibians and crustaceans that have a life cycles directly tied to water cycle. When the pools dry up in late spring, the crustaceans become seeds or cysts to survive the rest of the year. On the far side of the table formations, out of sight of Auberry Road, the land slopes steeply down to the San Joaquin River. These north-facing slopes sustain an excellent mix of foothill pine forest and chaparral. The Preserve also includes a 47-acre parcel along the Little Dry Creek on the south side.

Riparian Zone

A first order tributary stream to the Little Dry Creek runs through the McKenzie Preserve and several other intermittent streams. Many reaches of the streams go dry during the summer months and during dry years, however there are several spring fed pools found along the stream bed year-round. Removal of the invasive figs will most likely result in more productive springs providing more water for wildlife and aquatic species reliant on the stream such as Sierra Newts (Taricha sierrae).

There are some reaches of the stream that are devoid of normal riparian woody species, possibly from a history of poor grazing management. SFC wants to restore the riparian corridor by increasing plant litter and cover; diversify composition, encourage growth, and improve vigor of desirable riparian vegetation; and protect stream banks from erosion.

Livestock Management

After the first fall rains (usually in November), a herd of approximately 200 stockers or 100-125 cow/calf pairs are grazed from germination, with a mandate to leave a minimum residual dry matter of 700 lbs/acre in each pasture. Stocking rate is customized yearly depending on rainfall (fewer cattle in drought years, more in wet years). The cattle are rotated through 11 hard-fenced pastures, containing each at least one concrete water trough. SFC utilizes an adaptive management strategy, so that the timing and duration of annual grazing events in each pasture follows the limits laid out in the grazing plan, whilst incorporating new information (i.e. Rangeland Monitoring Network data). Also, the seasonal on-the-ground observations including forage condition, rainfall patterns, and other ecological indicators adhere to the same adaptive management system.

Hikes

Most hikes on the Preserve include a climb to the top of the table formation, where visitors can enjoy spectacular views of the San Joaquin River drainage and the Sierra Nevada mountains. In spring, there are picturesque displays of wildflowers on the slopes and tabletops; with the trails being at the low end of the preserve. A four-mile self-guided Discovery Trail along the ranch road and part of the historic SJ&E railroad right of way is suitable for easy walking. The climb to the top of the table is strenuous; the table top itself is level, but walking is difficult because of the rocky surface. Total distance along the trail from the parking area to the top of the table is about six miles, round trip, with just over 1,000 ft elevation change.

Infrastructure

The Preserve boundary is completely fenced, with the exception of the precipice of the Table Mountain where no fence is necessary and across the McKenzie Table. Most of the fencing is in good condition and will hold cattle. There are 8 fields on the main part of the McKenzie preserve ranging in size from 3 to 360 acres and are all separated with 4 strand barbed wire. There is also a corral for shipping cattle at the entrance to the property. Water is well distributed across the ranch via developed springs, tanks, above ground poly-pipeline and troughs. There is a 1st order stream with intermittent flows, several springs and seeps, vernal pools, and several tanks and water troughs. All of the troughs have wildlife escape ramps, but some are in need of replacement.

There are two dirt roads on the Preserve, with one that sits atop a historic railroad grade. There are some erosion concerns on the roads that will be addressed in the conservation plan.

Soil

The Preserve is composed of many soil types over a wide range of slopes. Ahwahnee, Auberry, and Vista sandy loams dominate the site, with the exception of soils on the tabletop and the Bolin gap field which have stony, gravelly, and cobbly loam. Most of the slope's grades are 30-70% with a few shallower areas. Soils were sampled by Innovative Ag Services for Minerals, Organic Matter and Total carbon. Results show low content of macro-nutrients (NPK), organic matter depletion and low carbon content. See Attachment for soil lab results.

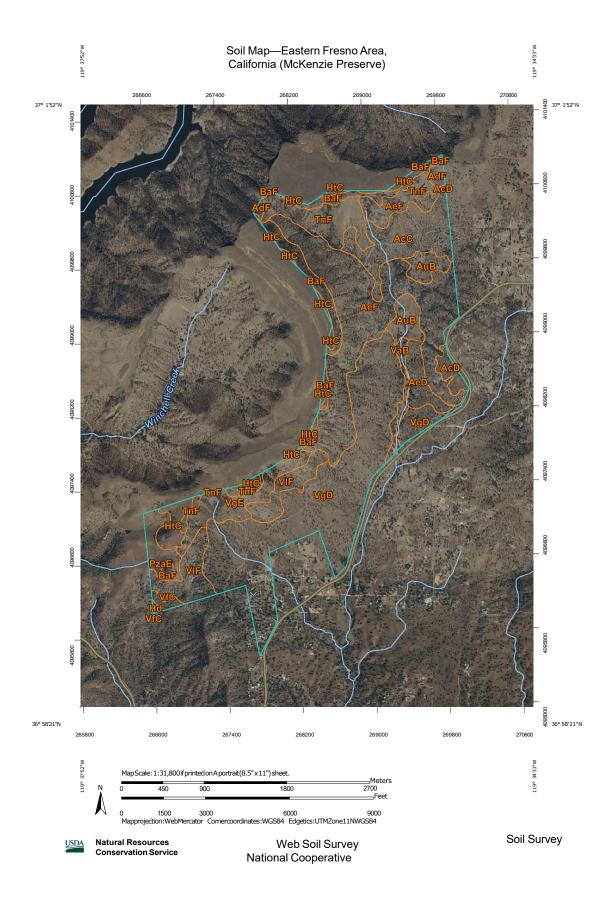
Ahwahnee soils – parent material: quartz diorite; depth to root restrictive layer: 18-40 inches; drainage: well drained; organic matter in surface horizon: 1%

Auberry soils – parent material: quartz diorite; depth to root restrictive layer: 40-60 inches; drainage: well drained; organic matter in surface horizon: 2%

Hideaway soils – parent material: basalt; depth to root restrictive layer: 2-10 inches; drainage: well drained; organic matter in surface horizon: 1%

Toomes soils – parent material: volcanic breccia; depth to root restrictive layer: 3-12 inches; drainage: well drained; organic matter in surface horizon: 1%

Vista soils – parent material: granitic rock; depth to root restrictive layer: 10-20 inches; drainage: well drained; organic matter in surface horizon: 1%



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
AcC	Ahwahnee coarse sandy loam, 9 to 15 percent slopes	137.1	7.6%	
AcD	Ahwahnee coarse sandy loam, 15 to 30 percent slopes	21.8	1.2%	
AdF	Ahwahnee very rocky coarse sandy loam, 45 to 70 percent slopes	14.1	0.8%	
AeD	Ahwahnee very rocky coarse sandy loam, shallow, 3 to 30 percent slopes	43.1	2.4%	
AeF	Ahwahnee very rocky coarse sandy loam, shallow, 30 to 70 percent slopes	443.2	24.5%	
AuB	Auberry coarse sandy loam, 3 to 9 percent slopes	62.3	3.5%	
BaF	Basic igneous rock land	83.3	4.6%	
Hd	Hanford sandy loam, benches	1.7	0.1%	
HtC	Hideaway extremely stony loam, 3 to 15 percent slopes	58.0	3.2%	
PzaE	Positas gravelly loam, 30 to 45 percent slopes	40.9	2.3%	
TnF	Toomes extremely cobbly loam, 30 to 70 percent slopes	118.0	6.5%	
VaB	Visalia sandy loam, 3 to 9 percent slopes	24.8	1.4%	
VfC	Vista coarse sandy loam, 9 to 15 percent slopes, fewer frost free days, MLRA 18	8.6	0.5%	
VgD	Vista coarse sandy loam, shallow, 9 to 30 percent slopes	553.5	30.6%	
VgE	Vista coarse sandy loam, shallow, 30 to 45 percent slopes	82.3	4.6%	
VIF	Vista very rocky coarse sandy loam, shallow, 30 to 70 percent slopes	113.7	6.3%	
Totals for Area of Interest		1,806.5	100.0%	

Site Map

Mckenzie Table Mountain Preserve



1,000 0 1,000 Feet

Legend

Field (CAFO)

Field (Contracted nonCAFO)

Field (nonCAFO)

APNs

Reservoir

Wells (Controlled)

Domestic (CAFO)

Irrigation (CAFO)

Domestic (non-CAFO)

● Irrigation (non-CAFO)

Groundwater Monitoring

Inactive

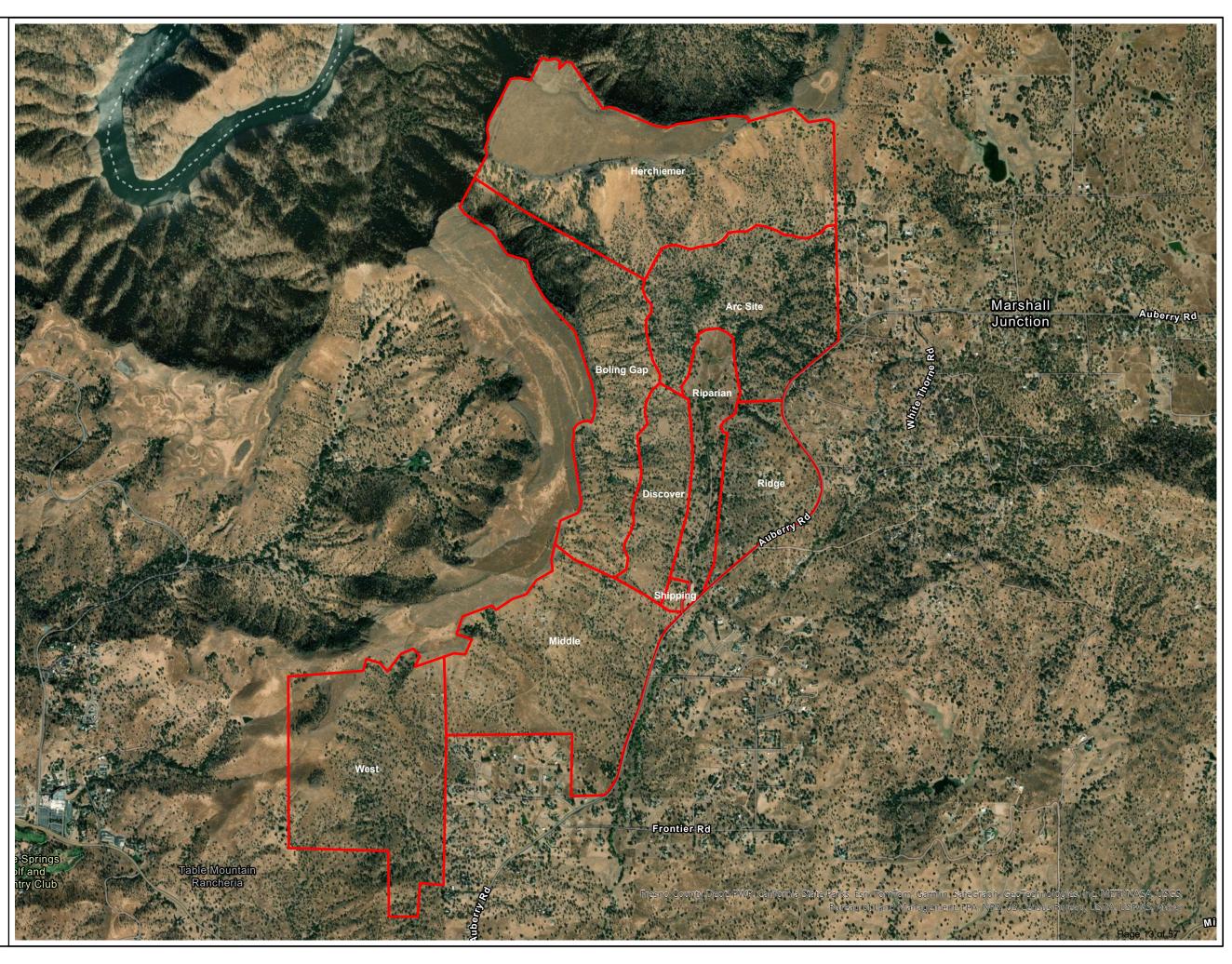
Wells (Not Controlled)

Domestic

Irrigation

O Wind Turbine





Goals

With the goals to improve soil health and ecosystem function on the Preserve practices recommended by the CFP would serve to increase soil carbon, perform native plant species planting, control invasive plant species, implement prescribed grazing, and installation of structures to reduce runoff.

Resources Concerns

During the visit to Ruth McKenzie Table Mountain Preserve the following resources concerns were identified:

- Organic matter depletion.
- Soil erosion.
- Lack of plant diversity and reproduction.
- Streambank erosion.
- Invasive and noxious weeds.
- Grazing pressure in some areas.

Planned Carbon Beneficial Practices

1. Riparian Restoration (Riparian Forest Buffer CPS 391)

There are some reaches of the stream that are devoid of normal riparian woody species, possibly from a history of poor grazing management or intentional vegetation clearing prior to SFC ownership. SFC wants to improve ecological function by restoring the riparian corridor. Riparian restoration practices will be applied to increase plant litter and cover; diversify composition, encourage growth, improve the vigor of desirable riparian vegetation; and protect stream banks from erosion.

Cottonwood, willow and other appropriate riparian vegetation should be planted on both sides of the creek in the Riparian pasture. The purpose of this practice is:

- Reduce transport of sediment to surface water, and reduce transport of pathogens, chemicals pesticides, and nutrients to surface and ground water,
- Maintain or increase total carbon stored in soils and/or perennial biomass to reduce atmospheric concentrations of greenhouse gases.
- Lower elevated stream water temperatures.
- Restore diversity, structure, composition of riparian plant communities, stream bank stability and hydrologic functioning.



Figure 2 Riparian Restoration Implementation Site

2. Prescribed Grazing Implementation (CPS 528)

SFC plans to use prescriptive grazing as a management tool to address resource concerns and enhance the biodiversity on the Preserve. Diversity of grasses, forbs, and functional groups are of high importance to SFC as well as hydrologic function, soil health, a robust and diverse riparian plant community, availability of resources for aquatic and riparian dependent wildlife, health and viability of vernal pools, and upland wildlife habitat.

This practice is recommended on the 1,800 acres seasonally utilized as cattle pasture. Prescribed grazing implementation will Improve or maintain desired species composition, structure and/or vigor of plant communities, Improve or maintain quantity and/or quality of forage for grazing and browsing animal health and productivity, improve or maintain surface and/or subsurface water quality and/or quantity, reduce soil erosion, and maintain or improve soil health.

3. Compost Application (CPS 336)

Application of compost/compost tea is also recommended, higher rates (6 ton/acre) applied to the grazing areas where the cattle is located can improve the quality of the grass, soil and increase carbon sequestration.

4. Composting Facility (CPS 317)

There is an opportunity to sequester additional carbon and store it in the soil by locally producing at least part of the compost tea, from plant residues, cow manure, etc., which are regularly produced within the Preserve and need to be handled and disposed of. By having the necessary equipment for compost tea manufacturing on site, the Preserve could improve its rangeland area which is showing signs of degradation.

Additional Beneficial Practices:

1. Cultural Plant Establishment (Riparian Herbaceous Cover CPS 390)

The areas where cultural plant establishment will be implemented are currently dominated by non-native species. Eurasian origin annual grasses and noxious wetland cultivars currently dominate the identified Cultural Plant Establishment sites. This current suite of species has effectively excluded the desired native vegetation which would be characteristic of these wetland features. Native sedges, rushes and perennial grasses will be established at the designated sites after control of the non-native species either through torch burning, hand removal or grazing impact.

2. Cross Fencing (CPS 382)

Crossing fences could be utilized in the west and middle fields, this would facilitate adequate planned grazing implementation of livestock in the area. Currently the cattle only graze at the base of the hill and avoid going to higher areas. Separating the fields in smaller sizes would allow for better planned grazing implementation, increasing benefits like longer recovery periods between grazing treatments, balance between natural pasture species and those most suitable for livestock, and greater control of the soil, the harvest, and the nutritional quality of the grass.

3. Pile Burning and seed sowing (Prescribed Burning CPS 338)

SFC will apply multiple burning techniques to reduce invasive species cover on the Preserve and create a seed bed for establishment of native perennial grass species. The proposed species for establishment is nodding needle grass (*Stipa cernua*). The native grass species is expected to increase soil water infiltration rate, storage capacity and soil carbon sequestration. One of SFC's key ecological objectives is to increase the abundance of native perennial grass species. This conservation outcome is desired for the ecological and cultural benefits that native grass species provide on the Preserve.

The understory of mixed annual grasses will be burned along with woody vegetation that is sourced from a nearby stand of interior live oak which is desired to be thinned for fire hazard reduction purposes.

4. Invasive species removal (Herbaceous Weed Treatment CPS 315)

High density of invasive species has been observed in some areas of the Preserve. Herbicide application using a backpack sprayer is necessary to control Italian thistle and Medusahead species. The purposes of this practice are enhancing accessibility, quantity, and/or quality of forage and/or browse, Restore, or release native or desired plant communities for wildlife habitat, Protect soils and control erosion and control pervasive plant species to a desired level of treatment.

5. Rock Drops Structures (CPS 362 Diversion)

In the northern area of the Preserve, erosion problems can be observed in some places due to high-period rainwater runoff. During the rainy period and the steep slopes, water descends from higher areas with greater momentum creating complications such as the movement of sediments and erosion as mentioned earlier.

To avoid this problem, rock drops have been built in some places (Figure 3), but it is vitally important to build more of these structures in the other effected areas to preserve soil and vegetation. The formation of these structures would start by placing the rocks on the ground, on top of the erosion in a tile-like fashion. Then, they are built up on the sides with smaller aggregates to fill any gaps and spaces and continue to the soil profile that is desired. Smaller aggregates are tamped in with appropriate-sized tools. The rock is worked within the confines of the stream so little compaction is necessary.



Figure 3. Rock Drops Structures.

Recommended/Planned Carbon Beneficial Practices

Table 1 summarizes carbon sequestration and Greenhouse Gas (GHG) emission reduction potential from the implementation of the NRCS Conservation Practices listed above (see Implementation Map for location of practice implementation). Using COMET-PLANNER we estimate a potential of 1,068 tons of CO2 equivalent sequestered or mitigated as greenhouse gas emissions per year for the entire Preserve upon implementing the plan. This is equal to 254 passenger vehicles not driven in one year or 371 tons of waste recycled instead of landfilled according to the EPA GHG Equivalency Calculator (https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator).

Table 1: Estimated Annual Carbon Sequestration and GHG Emission Reductions Associated with Implementation of Suggested Conservation Practices

Conservati on Practice (applicable NRCS Practice Standard #)	Description (List Location ID on Map)	Size (Specify dimensi ons)	Carbon Dioxid e (CO2)	Nitrous Oxide (N2O)	Metha ne (CH4)	Total CO2eq/ yr	Quantifi cation Method *	Implementa tion Notes
336 Soil Carbon Amendme nt	Middle	238 ac	1,058	-5	1	1,054	COMET - planner	6 tons/acre compost application
391 Riparian Forest Buffer	Field Riparian	1ac	2	-	-	2	comet - planner	Replace a Strip of Grassland Near Watercourse s or Water Bodies with Woody Plants
528 Prescribed Grazing	Field West, Middle, Shipping, Discover, Boling Gap, Riparian, Arc Site, Herchiemer Gap, Thicket, Ridge	1800 ac	8	4	0	12	COMET - planner	Grazing Management to Improve Rangeland or Non- Irrigated Pasture Condition
		Total	1	ı	1	1,068		

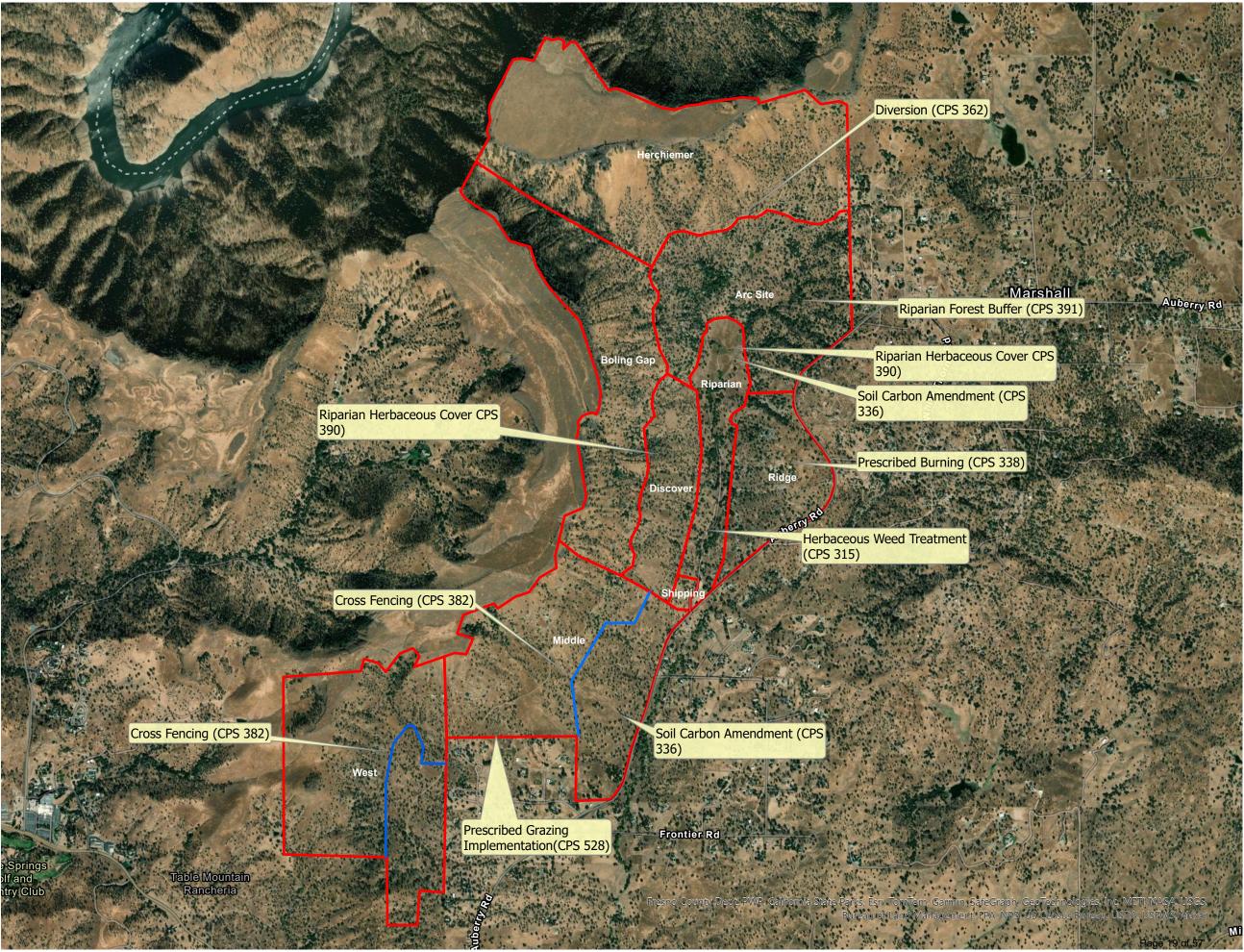
Implementation Map

Mckenzie Table Mountain Preserve 1,000 0 1,000 Feet Legend Field (CAFO) Field (Contracted nonCAFO) Field (nonCAFO) APNs Reservoir Wells (Controlled)



Domestic (CAFO)Irrigation (CAFO)Domestic (non-CAFO)





Implementation Plan and Timeline

Table 2 shows the implementation for the Preserve. It also mentions the benefits associated with the implementation of these practices.

Table # 2 Implementation Plan

Conservation Practices	CO2 Benefit		Д	ssoci	ated I	Benefi	t		Date
NRCS Conservation Practice Standard & Code	COMET- Planner	Soil Health	Water Quality	Water Quantity	Wildlife Enhancement	Plant Community	Air Quality	Producer Economics	Implementation Plan
Soil Carbon Amendment (CPS 336)	1,054	X	X	X		X		X	December, 2025
Riparian Forest Buffer (CPS 336)	2	Х	Х	Х		Х	Х	Х	December, 2025
Prescribed Grazing (CPS 528	12	х	X	x		x	х	x	December, 2025
Composting Facility (CPS 317)									December 2025
Cultural Plant Establishment (Riparian Herbaceous Cover CPS 390)		Х			Х	Х			December 2025
Cross Fencing (CPS 382)		Х			Х	Х			January 2026
Pile Burning and seed sowing (Prescribed Burning CPS 338)						Х			December 2024
Invasive species removal (Herbaceous Weed Treatment CPS 315)						Х			December 2025
Rock Drop Structures (Diversion CPS 362)		Х					Х		December 2025

Appendix 1 Soil Lab Results



Innovative Ag Services 1201 Delta View Rd., Ste 5 Hanford, CA 93230 Account# 00-0015707

Account Manager: Chad Reenders Submitted By: Caleb Crawford Ranch: McKenzie Preserve

Sample Results

Received: 05/08/2024 8:10 Reported: 06/11/2024 09:18

Sample: McKenzie

24E0485-01 (Soil)

Sampled: 5/6/2024

Sampled By: C. Crawford

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Saturated Paste									
Boron, Soluble	ND	mg/L	0.1	1		05/10/24 08:39	S 1.50		BFE024
Calcium, Soluble meq	0.6	meq/L	0.05	1		05/10/24 08:39	S 1.60		BFE024
Chloride meq	0.5	meq/L	0.003	1		05/09/24 13:14	S 1.70		BFE024
Electrical Conductivity	0.17	mmhos/cm	0.01	1		05/10/24 08:39	S 1.20		BFE024
ESP	0.2	%	0.1	1	9.9	05/10/24 08:39	Calc		BFE024
Potassium, Soluble meq	0.1	meq/L	0.003	1		05/10/24 08:39	S 1.60		BFE024
Lime Presence	ND		0	1		05/09/24 10:30	Hnbk 60-23a		BFE024
Lime Requirement	ND	lbs/ac-6in	500	1		05/10/24 11:51	Hnbk 60-23a		BFE034
Magnesium, Soluble meq	0.2	meq/L	0.008	1		05/10/24 08:39	S 1.60		BFE024
Sodium, Soluble meq	0.6	meq/L	0.004	1		05/10/24 08:39	S 1.60		BFE024
pH	5.9	units	1.0	1		05/09/24 10:30	S 1.10		BFE024
Sulfate as SO4-S, Soluble meq	0.1	meq/L	0.006	1		05/10/24 08:39	S 1.70		BFE024
Saturation Percentage	20	%	0.5	1		05/09/24 10:30	S 1.00		BFE02
extractables									
Calcium, Extract	807	mg/kg	1	1		05/09/24 13:21	S 5.10		BFE02
Calcium, Extract est	59.2	%	0.1	1		05/09/24 13:21	Calc		BFE02
Calcium, Extract meq	4.0	meq/100g	0.1	1		05/09/24 13:21	Calc		BFE02
Ca:Mg Ratio	4.2		0.1	1		05/09/24 13:21	Calc		BFE02
Cation Exchange Capacity, est	6.8	meq/100g	0.1	1		05/09/24 13:21	Calc		BFE02
Copper, Extract	0.5	mg/kg	0.1	1		05/09/24 15:27	S 6.10		BFE02
Iron, Extract	24	mg/kg	0.1	1		05/09/24 15:27	S 6.10		BFE02
Hydrogen	15.5	mg/kg	0.1	1		05/10/24 11:51	S 2.50		BFE03
Hydrogen est	22.7	%	0.1	1		05/09/24 13:21	Calc		BFE02
Hydrogen meq	1.5	meq/100g	0.1	1		05/10/24 11:51	Calc		BFE03
Potassium, Extract	69	mg/kg	2	1		05/09/24 13:21	S 5.10		BFE02
Potassium, Extract est	2.6	%	0.1	1		05/09/24 13:21	Calc		BFE02
Potassium, Extract meg	0.2	meq/100g	0.1	1		05/09/24 13:21	Calc		BFE02
K:Mg Ratio	0.2		0.1	1		05/09/24 13:21	Calc		BFE02
Magnesium, Extract	115	mg/kg	6	1		05/09/24 13:21	S 5.10		BFE02
Magnesium, Extract est	13.9	%	0.1	1		05/09/24 13:21	Calc		BFE02
Magnesium, Extract meq	0.9	meq/100g	0.1	1		05/09/24 13:21	Calc		BFE02
Manganese, Extract	8.2	mg/kg	0.1	1		05/09/24 15:27	S 6.10		BFE02
Sodium, Extract	26	mg/kg	5	1		05/09/24 13:21	S 5.10		BFE02
Sodium, Extract est	1.6	%	0.1	1		05/09/24 13:21	Calc		BFE02
Sodium, Extract meq	0.1	meq/100g	0.1	1		05/09/24 13:21	Calc		BFE02
Nitrate Nitrogen as NO3-N,	3	mg/kg	1	1		05/09/24 11:16	S 3.10		BFE02

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Innovative Ag Services 1201 Delta View Rd., Ste 5 Hanford, CA 93230 Account# 00-0015707

Account Manager: Chad Reenders Submitted By: Caleb Crawford Ranch: McKenzie Preserve

Sample Results (Continued)

Sample: McKenzie (Continued)

24E0485-01 (Soil)

Sampled: 5/6/2024

Sampled By: C. Crawford

Received: 05/08/2024 8:10

Reported: 06/11/2024 09:18

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Extractables (Continued)									
Phosphate as PO4P, Extract	ND	mg/kg	2	1		05/09/24 11:16	S 4.10		BFE0244
Phosphate as PO4P, Bray Extract	8	mg/kg	1	1		05/10/24 10:19	S 4.20		BFE0344
Zinc, Extract	0.2	mg/kg	0.1	1		05/09/24 15:27	S 6.10		BFE0244
Additional Analytes									
Nitrogen, Total	0.04	%	0.01	1		05/09/24 16:07	S 9.30		BFE0244



Innovative Ag Services #15707/22 Ranch: McKenzie Preserve 804 Highway 15 West P.O. Box 510 Northwood, ND 58267

(701) 587-6010 FAX (701) 587-6013

northwoodlab@agvise.com www.agvise.com

AGVISE Soil Characterization Report

Submitted For:
MCKENZIE PRESERVE
WORK ORDER: 24E0485

Submitted By: DE3312 DELLAVALLE LABORATORY INC 1910 MCKINLEY, STE 1

FRESNO, CA

93728-1

Field ID = MACKENZIE

Co-op/Contr. ID =

PO# 60562

Township = County = Section =

Sample ID = 24E0485-01

Quarter =

Date Received = 5/15/24Date Reported = 5/31/24 AGVISE Lab No = 28,080AGVISE Ref No = 20,632,219

Sand Size Analysis by Wet Sieving:

% Sand retained on 53 um sieve

71.4

Wet-stable aggregation % total (>53 um) 80.4
large macroaggregate % (>2000um) 13.9
macroaggregate % (250-2000um) 38.9
microaggregate % (53-250um) 27.6
Wet-stable aggregation (sand corrected), % total (>53 um)

Wet-stable aggregation (sand corrected), % total (>53 um) 23.0 large macroaggregate % (>2000um) 4.0 macroaggregate % (250-2000um) 11.1 microaggregate % (53-250um) 7.9



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AGVISE Soil Characterization Report

Submitted For: MCKENZIE PRESERVE WORK ORDER: 24E0485

DE3312 Submitted By: DELLAVALLE LABORATORY INC 1910 MCKINLEY, STE 1

FRESNO, CA

93728-1

MACKENZIE Field ID = Co-op/Contr. ID = PO# 60562 Township = 24E0485-01 Sample ID =County = Quarter = Section = 28,081 AGVISE Lab No = Date Received = 5/15/24 20,632,220 5/31/24 AGVISE Ref No = Date Reported = 0.4 % Carbonates (Pressure Method) 0.4 % Total Carbon (Carbon Analyzer) 0.0 % Inorganic Carbon 0.4 % Organic Carbon Analyzer 0.7 % Organic Matter Analyzer 98.1 Solvita ppm CO2-C = Active Carbon (POXC) (ppm) 117 1.4 ACE Protein mg/g

Appendix 2: Implementation requirements

315 - Herbaceous Weed Treatment Chemical Implementation Requirements

Natural Resources Conservation Service

1. Management Objectives (check one or more)

Client	Sierra Foothill Conservancy - McKenzie Preserve	Date	June 3, 2024
Farm/Tract		Field(s)	Bottom Field
Location	22477 Auberry Rd, Clovis, CA 93619	Acres	300.0
Planner	Harol Gonzalez Gallardo	County	Fresno

☐*Enhance accessibility, quantity, and/or quality of forage and/or browse
⊠*Restore or release native or create desired plant communities and wildlife habitats consistent with the site potential.
□*Protect soils and control erosion
*Reduce fine fuel loads and wildfire hazard
☐*Improve rangeland health
Management Objective Narrative(s) (include what to measure, where, when, etc.): High density of invasive species has been observed in some areas of McKenzie Preserve. Herbicide application using a backpack sprayer is necessary to control Italian Thistle and Medusahead species.

2. Desired Plant Communities and Target Herbaceous Weed Species

	_		
Ecological Site Name/Number or Approximate Desired Plant Community Composition, Structure, and Function	Target Species	% Cover (before)	%Cover (after)
Ecological site R018XC103CA, Lithic Thermic Foothills. Community 1.1, G This community phase is dominated by annual grasses. AVFA, BROMU, HORDE, and FESTU are the most common species.	Medusahead, Italian Thistle		

3. Monitoring Plan

Monitoring is done to assess degree of herbaceous weed control and to identify areas needing further treatment.

Monitoring will be performed by NRCS and/or landowner at least annually at the end of the growing season following treatment.

Percent cover or density of the target species (see item 2 above) will be measured and compared to desired percent cover or density (% cover after (item 2 above)). If the measured amount is less than or equal to the desired amount, this practice is to be considered complete. If the measured amount is greater than the desired amount, additional treatments will be scheduled and noted in item 5 of this specification.

Additional Narrative:		
1		

Page **1** of **7** April **2019**

4.	Selected	Treatment	Method(s)	(check	one or	more)
----	----------	------------------	-----------	--------	--------	-------

	Aerial Application	Ground Application
\boxtimes	Spot Application	Other (Describe):

	HERBACEOUS WEED CONTROL CHEMICAL ALTERNATIVES					
	Alt. No. 1	Alt. No. 2	Alt. No. 3	Alt. No. 4		
Chemical	Milestone (Aminopyralid)	Transline (Clopyralid)		Capstone (Aminopyralid triclopyr)		
Rate	TBD	TBD	TBD	TBD		
Time	TBD	TBD	TBD	TBD		
Remarks						
Caution	Keep out of reach of children Personal protective equipment needed when applying. Read about toxicological and environmental precaution.	 Keep out of reach of children Personal protective equipment needed when applying. Read about toxicological and environmental precaution. 	Keep out of reach of children Personal protective equipment needed when applying. Read about toxicological and environmental precaution.	 Keep out of reach of children Personal protective equipment needed when applying. Read about toxicological and environmental precaution. 		
Source of Recommendation	should be done by a	Recommendation should be done by a PCA		Recommendation should be done by a PCA		

>All chemicals will be applied according to label instructions.

Additional Narrative:

To minimize drift, check local forecasts and refer to the UC Extension information "Minimizing Pesticide Drift"

>WinPST evaluations are attached. Ratings of Intermediate or higher require mitigation measures as described

[•] Delintegrated Pest Mgt. 595 is required to mitigate potential hazards or to apply Integrated Pest Management (IPM):

5. Treatment Schedule

Include all treatments needed to achieve effective control of the target plant species. This includes any additional treatments needed to achieve effective control of pervasive plant species.

Treatment Location (field)	Planned Treatment Year	Planned Acres	Applied Treatment Year	Applied Acres
Bottom Field	2024	300.0		

_				_			_
6	Wi	lhli	if₽	Cal	neid	l⊵rat	ione

All work conducted will be performed at times that meet the needs of resident and transient wildlife.

Additional Narrative:	

7. Maps included with this specification

- Plan map showing area to be treated, areas not being disturbed, and any sensitive areas
- Soil map

8. Additional Requirements

Additional Narrative:		

9. Operation and Maintenance

Perform the following items:

- Monitor each year to evaluate desired plant community and any regrowth or recurrence of target pest species. Apply appropriate spot treatments as needed to maintain desired plant community.
- Review and update the plan annually to incorporate new IPM technology.
- Maintain mitigation techniques selected to ensure continued effectiveness.
- Develop a safety plan for individuals exposed to pesticides
- Follow labels requirements for mixing/loading setbacks from wells, streams, rivers and natural or impounded pond, lakes and reservoirs.
- Post signs according to label directions and/or Federal, Tribal, state and local laws around treated sites. Follow restricted entry intervals.
- Dispose of pesticide containers according to label directions and Federal, Tribal, state and local regulations.
- Calibrate application equipment according to University of California Cooperative Extension and/or manufacturer recommendations before each seasonal use and with each major chemical change.
- Replace worn nozzle tips, cracked hoses and faulty gages.
- Handle all pesticides with caution and wear appropriate protective clothing according to label instructions.
- Maintain appropriate Material Safety Data Sheets (MSDS).
- Maintain records of pesticide application for restricted use materials as per the California Department of Pesticide Regulation record keeping requirements.
- Report monthly agricultural pesticide use to the County Agricultural Commissioner in accordance with California law.

10. References

NRCS does not develop chemical treatment recommendations; however, NRCS can provide current acceptable chemical control references. A list of these references is below;

- http://wric.ucdavis.edu/information/natural%20areas/natural areas scientific A-B.htm
- http://ipm.ucanr.edu/index.html
- http://www.cdpr.ca.gov/docs/license/liccert.htm
- http://www.cdpr.ca.gov/docs/pestmgt/ipminov/ipmmenu.htm
- http://www.epa.gov/espp/
- http://www.cdpr.ca.gov/docs/emon/vocs/vocproj/reducing_voc_emissions.pdf

Design Approval: (to be completed by the NRCS)

Practice	Practice	Lead	Controlling factor	ontrolling factor Units		Jo	b class				
Code	Fractice	Discipline	Controlling factor			II	III	IV	V		
	Herbaceous Weed	DCCD Craz Land	Treatment Type	Treatment Type	1 Type	2 Types	All Types	All Types	All Types		
315	Treatment	BCSD Graz Land Spec			Slope	Percent	0 – 15 %	16 – 25 %	26 – 35 %	All	All
			Method	Туре	Mechanical	Biological	Chemical	All	All		
	This practice is classified as Job Class (check one):										

Desi	gn Approved By: /s/	Date:	
Job 1	itle		
	Defende the Fallentian Concernation	D 4! -	One of the stine of 1
	Refer to the Following Conservation	Practic	
	Prescribed Grazing 528		Access Control 472
	Integrated Pest Management 595		Critical Area Planting 342
	Brush Management 314		Range Planting 550
	Forage Harvest Management 511		Forage and Biomass Planting 512
	Wetland Wildlife Habitat Mgt. 644		Upland Wildlife Habitat Mgt. 645
	Other:		
Clie	nt's Acknowledgement Statement:		
The	Client acknowledges that:		
a.	They have received a copy of the specification and understand the co	ntents a	nd requirements.
	t shall be the responsibility of the client to obtain all necessary permit aws pertaining to the application of this practice.	s and/or	rights, and to comply with all ordinances and
	Certification documentation (see below) must be provided to NRCS b applied:	y the clie	ent before the practice can be certified as
Acce	pted By: /s/		Date:

Certific	ation
----------	-------

e client has provided one of the required <u>can be the specification</u>	certification documentation ns and will be placed in the c	<u>n options</u> (accepta case file.	able forms of doc	umentation	are listed below
Applicators log / receipts from a	applicator				
Client Documentation Workshe	eet				
Treatment Location (field)	What is Measured	Time of Year	Desired Condition	Year	Measured Condition
☐ Photo monitoring ☐ Other: Brief Description					
ve completed a review of the information dard and the practice implementation rec		ertify this practice h	nas been applied	according to	the practice
tified By: /s/)ate:	· · · · · · · · · · · · · · · · · · ·
title					

Client Documentation Worksheet

		Example	es in grey			
Field Number(s)	Date Sprayed	Applicator Name	Wind Speed/ Direction	Weath	er*/ Air Temp.	Equipment Used**
14	9/10/2014	Western Spray Inc.	5 mph, S-SE	Partly	cloudy, 65 F	ATV
	0/10/2011	Troutern opiny mor	Op.i., O O _		,,	7 1 1
	1					
	1			<u> </u>		
Alternative Select	ted: □Alte	ernative 1 □Alternative 2 □Alte	ernative 3	rnative 4		
	_		- <u>-</u>			
Product Namo	· List all Herbicid	les, water conditioner, surfactants, or	Rate (per acre)	Acres	Total Quantity	/ Amount of Water
Flouuct Name		es used.	oz., pints, etc.	Treated	Used	Used per Acre
Plateau (Imazapi		es useu.		45	180 oz.	10 gallon acre
Flateau (IIIIazapi	10)		4 oz.	40	100 02.	TO galloff acre
			1	<u> </u>	<u> </u>	
Comments:						
						· · · · · · · · · · · · · · · · · · ·

April 2019 NRCS CA

^{*}Clear, partly cloudy, overcast, showers, etc. ** Back pack sprayer, ATV, Boom sprayer, Fixed winged aircraft, helicopter etc.

336 – Soil Carbon Amendment Implementation Requirements - Compost

Natural Resources Conservation Service

Customer Name:	Sierra Foothill Conservancy - McKenzie Preserve	Date:	6/ 0/2/2/2 5
Location:	22477 Auberry Rd	Field Office:	
County:	Clovis, 93619	Prepared by:	Harol Gonzalez Gallardo
Farm/Tract/Field:		Contract Number:	

Practice Purpose: (check all that apply)

- ☐ Improve or maintain soil organic matter
- Sequester carbon and enhance soil carbon (C) stocks
- ☑ Improve habitat for soil organisms

IT IS THE RESPONSIBILITY OF THE OWNER TO OBTAIN ALL NECESSARY PERMITS AND/OR RIGHTS, AND TO COMPLY WITH ALL ORDINANCES AND LAWS PERTAINING TO THIS INSTALLATION.

Installation shall be in accordance with the following drawings, specifications and special requirements. NO CHANGES ARE TO BE MADE IN THE DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR APPROVAL OF THE NRCS TECHNICIAN.

___X __Plan map attached with planned Soil Carbon Amendment treatment area designated, including soil type, slope, drainage class.

Type of Soil Carbon Amendment to be applied: Compost \square

Land Use: Crop □ Pasture ☑ Range □ Forest □ Associated Ag. Land □ Developed Land □ Farmstead □

Complete and document the following to implement this practice:

- pH
- soil texture (may be determined by NRCS)
- soil organic matter or soil organic carbon
- extractable phosphorus
- potassium

- calcium,
- sulfur
- magnesium.
- cation exchange capacity

☑ Document physical and chemical analysis of compost applied.

A. Compost

- i. Analysis must be done by a lab that successfully meets the performance standards of the U.S. Composting Council's Seal of Testing Assurance Program (STA), or use an alternative NRCS- or State- approved certification program that considers laboratory performance and proficiency to assure accuracy of results.
- ii. Analysis must report parameters below (Table 1.)

Compost that meets the following criteria as determined by the Test Methods for the Examination of Composting and Compost (TMECC), or by Land Grant University (LGU) recognized methods, per the criteria with specific numeric ranges (Table 1).
☐ Provide invoice showing total compost delivered with analysis.
□ Document application rate, date of application and planting dates for crops on amendment-treated land. Calculate the total nitrogen (N) and phosphorus (P) applied with the amendment using the application rate and the analysis. If the application rate results in an application of 100 lbs or more of N, provide records documenting all other sources of N applied to the land to which compost applied (e.g. fertilizer, irrigation water with significant nitrate levels) and describe how N applied with compost is considered in the N management budget for the crop.
☐ If applied to fields adjacent to surface water, provide photo documentation to demonstrate that amendment is applied following all setback and spreading restrictions to avoid sensitive areas, such as: wetlands, karst sinkholes, vernal pools, hydric soils, or naturally low fertility sites (e.g. serpentine soils, sage steppe, alkali sink or chaparral).
\square For C:N compost >25:1 , plant available nitrogen may be limited for crop growth. Apply supplemental nitrogen as needed.

Installation Requirements

- Do not apply compost to rangelands except where it is facilitating CPS Range Planting (Code 550) or CPS Critical Area Planting (Code 342).
- Do not apply soil carbon amendments on slopes greater than 15%.
- Do not apply soil carbon amendments
 - During high wind events
 - o To frozen or snow-covered fields, or when the top 2 inches of soil are saturated
 - Where the area will not be vegetated for longer than 3 months following application, or where nutrients from the amendment will cause leaching or runoff loss and water quality concerns
- Calibrate application equipment to ensure accurate distribution of material at planned rates.
- Inspect and evaluate surface applied applications after the first heavy precipitation event to assure that the material is stable and does not impact non-target areas

Table 1: Parameters for Compost Amendments

Parameter	Range	Unit
Fecal coliform	<1000	MPN ² per g dry compost
Salmonella spp.	<3	MPN per 4 g dry compost
Feedstock	Report ¹	Type by %
рН	Report	pH units
Electrical Conductivity (EC)	Report	dS/m
Moisture	Report	%
Organic matter/Carbon	Report ¹	% DW ²
Total Nitrogen	Report	% DW
C:N	>10:1	unitless
Particle Size	Report	% per size class
Phosphorus	Report	mg/kg⁴ DW
Potassium	Report	mg/kg DW
Calcium	Report	mg/kg DW
Magnesium	Report	mg/kg DW
Arsenic ³	<41	mg/kg DW
Cadmium	<39	mg/kg DW
Copper	<1500	mg/kg DW
Lead	<300	mg/kg DW
Mercury	<17	mg/kg DW
Nickel	<420	mg/kg DW
Selenium	<100	mg/kg DW
Zinc	<2800	mg/kg DW

¹Report results, also see criteria under amendment type.

³Pollutant concentration limit values from US EPA Title 40 Part 503 STANDARDS FOR THE USE OR DISPOSAL OF SEWAGE SLUDGE. Follow State and local laws and regulations.

⁴milligrams per kilogram (mg/kg) = parts per million (ppm) = grams per ton (g t⁻¹)

²DW = Dry weight.

¹Report = Required results only, no threshold or range needs to be met.

²MPN = Most Probable Number.

PRACTICE APPROVAL:

Job Classification:

Practice	Lead	Controlling			Jo	b class		
Code and Name	Discipline	_	Units	ı	II	Ш	IV	V
336 – Soil Carbon Amendment	Agronomis t	Material	Туре	Compost	Biochar	Other	All	None
For this project, this practice is classified as Job Class (check one)								

Prepared by:	Date:				
Design Approved by:	Date:				
LANDOWNER/OPERATOR'S ACKNOWLEDGEMENT:					
The landowner/operator acknowledges that:					
a. He/she has received a copy of the drawings, maps, specifications and implementation requirements, and understand the contents.					
b. He/she has obtained all the necessary permits and/or rights and will comply with all ordinances and law pertaining to this installation.					
c. No changes will be made to the installation of this job without pr	rior concurrence of the NRCS technician.				
d. Maintenance of the installed work is necessary for proper performance of the installed work is necessary for proper performance.	mance during the project life.				
Accepted by:	Date:				
PRACTICE CERTIFICATION / COMPLETION:					
I have made an on-site inspection of the site (or I am accepting owner practice meets NRCS standards and specifications.	er/contractor documentation), and certify the				
Certified by:	Date				

U.S DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE CALIFORNIA

IMPLEMETATION REQUIREMENTS FOR 338 - PRESCRIBED BURNING

For:	For: Business NameSierra Foothill Conservancy - McKenzie Preserve							
	Job Location	n	22477 Auberry	y Rd, Clovis, CA 93619)			
	County	Fresno	RCD_	Sierra RCD	Farm/Tract No.			
	Referral No	·	_Prepared By	Harol Gonzalez Gallar	do	_ Date_	6-3-2024	
				OF THE OWNER TO				
	D/OR RIGH TALLATIO		TO COMPLY	WITH ALL ORDINAN	NCES AND LAWS	PERTA	INING TO	ΓHIS
				burning plan requirement PPROVAL OF THE LEA		ARE TO) BE MADE	IN
1. L	ead Agency:	a	b c d e. CDF Permit f. Air Pollution	rnia Department of ForesUSFS, Local Fire District, phyesXno Control District Permit tached:Yes	Ranger District, one: phone: yes X	phone:		
2. S	pecies to be	burned:_	Nodding need	dle grass (<i>Stipa cern</i>	ua)			
estal (Stip Carl spec	olishment of oa cernua). Toon sequestra	native pe he native tion. One servation	rennial grass spec grass species is e e of SFC's key eco outcome is desir	ing small piles of woody cies. The proposed species expected to increase soil cological objectives is to i ed for the ecological and	es for establishment is water infiltration rate ncrease the abundance	s Noddi e, storage ce of nat	ng needle gra e capacity and ive perennial	d soil
inter ashe activ spec graz	nsity will be on s as has been wity to maintailes must be n	closely managed policy in the sitem of the s	nonitored within end by local tribes end after the practic to prevent overcreathelds and end end and end end end end end end end end end e	Cultural burning techneach burn pile. Further, the for millenia. Conservative is implemented. The arrowding and excessive coarly spring to control and	ne native grass seed we not grazing will be the noun grasses surrour of the detection with the detection wit	vill be rate primare primare the primare t	nked in with t ry stewardshi e established rasses. Target	he 2 native ed

PRACTICE APPROVAL: Job Classification: Show the limiting elements for this job. This job is classified as, Class Limiting elements: <u>Units</u> Area treated 0.04 ac Land Slope Plan Approved by: _____ Date: ____ LANDOWNER'S/OPERATOR'S ACKNOWLEDGEMENT: The landowner/operator acknowledges that: a. He/she has received a copy of the burn plan and specifications, and that he/she has an understanding of the contents, and the requirements. b. He/she has obtained all the necessary permits. c. No changes will be made in the installation of the job without prior concurrence of the lead agency. d. Maintenance of the installed work is necessary for proper performance during the project life. Accepted by: _____ Date: _____ PRACTICE COMPLETION: I have made an on-site inspection of the site (or I am accepting owner/contractor documentation), and certify the practice meets NRCS standards and specifications. Completion Certification by:

/s/_____Date____

382 - Fence Permanent Smooth, Barbed, Woven Implementation Requirements

Client	Sierra Foothill Conservancy - McKenzie Preserve	Date	6/3/2024
Farm/Tract		Field(s)	South, Filaree
Location	Fresno, CA	Length(s)	7,600
Planner	Harol Gonzalez Gallardo	County	Fresno CA

1. Management Objectives/Resource Concerns:

Resource Concerns being addressed:

Crossing fences are needed in the South and Filaree fields, this will allow adequate rotation of livestock in the area. Currently the cattle only graze at the base of the hill and avoid going to higher areas. Separating the fields in smaller sizes will allow a better rotation increasing benefits like quick grass recovery, balance between natural pasture species and those most suitable for livestock, and greater control of the soil, the harvest, and the nutritional quality of the grass.

2. Fence Specifications (check all that apply or fill in blank with information):

	Livestock Type:	X	Cattle (cow/calf, stockers, bulls)		Sheep		Goats		Horses
x	Barbed Wire		High Tensile Wire		3-Wire	X	4-Wire		5-Wire
	Woven Wire		26 inch		32 inch		Other (Describe)		
X	Line Post Type	X	Steel	Г	Wood		Other (Describe)		
	Wire Spacing e.g., 16, 6, 8, 12 (from ground up, in inches) 16 inches								
	Post Spacing (feet)		12 ft		Stays (yes/no)	No	Stay Type if use	d:	
	Total Fence Length (feet)	7,600					Other information	on:	

3.	Additional S	pecifications	or Special	Provisions	Specific t	o the Site
----	--------------	---------------	------------	------------	------------	------------

Narrative: The Producer/contractor is responsible for calling 811 for DigAlert information.

If wildlife crossing is a concern, fence should be no higher than 42" with spacing of the top 2 wires at 10 inches apart. This reduces the instance of deer getting caught in the fence. Bottom wire should be smooth set at 14".

Assure that H-Braces are placed at all changes in fence angle, at fence ends, at gates and at top and bottom of steep slopes.

See attached if any	v additional design	criteria is	required
Occ attachica ii aii	, aaaitioilai accigii	Olitolia io	. oquii oc

DESIGN APPROVAL:

Practice	Practice	Lead	Controlling factor	Units	Job class		ob class			
code	Practice	Discipline	Controlling factor Units		- 1	=	≡	IV	V	
		Type of Fence	Туре	Conventional	Electric/ Suspension	All	All	All		
382 Fence Range Sp	Range Specialist	Slope	Percent	0 – 15 %	0 – 15 %	16 – 30 %	31 – 45 %	All		
			Number of Limitations	No.	0	1	2	3	All	
	This practice is classified as Job Class (check one):									

Design Approved by:	Date:
· · · · · · · · · · · · · · · · · · ·	

CLIENT'S ACKNOWLEDGEMENT:

The Client acknowledges that:

- a. Specifications for materials and fence construction have been reviewed and agreed to.
- b. They have received a copy of the maps, drawings, specification, and implementation requirements, and that they understand the contents.
- b. They have obtained all the necessary permits.
- c. No changes will be made in the installation of the job without prior concurrence of the NRCS technician.
- d. Maintenance of the installed work is necessary for proper performance during the practice life; at least 15 years.

Accepted by:_		Date:
–		

have made an on-site inspection of the site (or I am accepting owner/contractor documentation), and have determined hat the job, as installed, conforms to the drawings/maps and implementation requirements and certify the practice meets NRCS standards and specifications.				
Completion Certification by:	Date			
INSERT PROJECT PHOTOS AFTER COMPLETIO	N:			

PRACTICE COMPLETION:



RIPARIAN HERBACEOUS COVER - 390 Implementation Requirements

Client/Landowner: Sierra Foothill Conservancy - McKenz	zie Preserve Date Planned:
Project Location: T- , R- , S- County: F	Fresno Field/Site ID:
USDA Program: Contract #	
This Job Sheet is for: ☐ Planting and/or ☒ Natural Re-vegetati	
	3
I. Project Goals and Objectives	
Landowner/Client's Goals and Objectives (describe):	
Native species planting in spring areas and/or smaller tributaries. site prep. Irrigation may not be needed if implemented in wetter a	*
Identify the planned purposes by checking the corresponding boxe	es:
Provide Fish and Wildlife Habitat (including Pollinators)*	Contaminate Remediation Streambank Stability Other:
Identify the complementary practices being planned:	
	Stream Habitat Improvement/Mgmt.
II. Baseline Inventory A baseline (pre-treatment) assessment will be evaluated and docume comparison with post-treatment conditions.	ented to assist in conservation plan development and for
Describe the baseline condition: The areas where cultural plant establishment will be implemented Urasian origin annual grasses and noxious wetland cultivars curre has effectively excluded	
Results of the Geomorphic Assessment ¹]:	
1. Site has the potential to support a riparian herbaceous plant	community? X Yes (If No, this practice may not be used)
1.a. Will the site require stream or streambank stabilization I <i>If Yes, use NRCS practice 395/580 prior to, or in conjunction with, t</i>	<u> </u>
1.b. Will the site require hydrology restoration before imple If Yes, use NRCS practice 395 (or other) prior to, or in conjunction	mentation? 🛮 No 🔲 Yes
2. Maximum Sustainable Width of the Herbaceous Riparian Zo	one: 7 feet (on average)
3. Description of the Site Hydrology	265 2007
1 Avg Water Flevation*:	
(top of the Toe Zone) $\frac{1-2}{2}$	
② Bankfull Discharge*: (top of the Bank Zone) 1-2 Bankfull	
3 Overhank Flevation: Discharge Flood Prone	AND ALL WALLS AND ALL WALLES AND ALL WALLES AND ALL WALL WALL AND ALL WALL AND ALL WALL WALL AND ALL WALL WALL WALL WALL WALL WALL WALL
(top of the Overbank Zone)	evation
4 Flood Prone Elevation: 1-2 Average Water	Toe Bank Overbank Transitional Upland
(top of the Transitional Zone)	one Zone Zone Zone © ② ③ ④
^{1]} Refer to the practice specification for details on conducting a geomorphic asse	

III. Project Design	
III. a. Planting (if applicable)	
Type of Planting: Entire maximum sustainable width of One or more zones will be planted (bu Only selective areas or species will be This is an aquatic planting (zone 1 sub	nt not the entire sustainable width), or
Timing of Planting: ☐ Just after the peak flows when water levels are gradual Note: Use a stream hydrograph to assist in determining when the p ☐ During the late summer wet season, approx.:	J 11 C 11 —
Size of Area to be Planted: <u>0.2</u> total acres (used for progress re	porting and contracting purposes)
Planting Area ID:	Planting Area ID:
Zone 1: width ft., length ft. = sq.ft.	Zone 1: width ft., length ft. = sq.ft.
Zone 2: width ft., length ft. = sq.ft.	Zone 2: width ft., length ft. = sq.ft.
Zone 3: width ft., length ft. = sq.ft.	Zone 3: width ft., length ft. = sq.ft.
Zone 4: width ft., length ft. = sq.ft.	Zone 4: width ft., length ft. = sq.ft.
Selected Plant Species ^{1] 2]} Plant Material Type	Selected Plant Species ¹ Plant Material Type
Zone 1 (seed, plug)	Zone 1 (seed, plug)
Zone 2	Zone 2
Zone 3	Zone 3
Zone 4	Zone 4
Access the CA eVeg guide for suitable species. Additional species Appendix 1. Selected plants must be adapted to the site hydrology fish and wildlife (regardless if fish/wildlife is a purpose of the prace species may be selected. Use only viable, high quality, site adapted	and provide the structural and functional diversity preferred by etice). If fish/wildlife is a practice purpose, then only native plant
The planting areas must be identified on the cons	servation plan map or on a planting design map.
^{2]} Lists dominants plants. Attached printout from CA eVeg guide for	or all planned species including plant material types.
Planting Density: One plug spaced 1.5ft apart, and/or a seeding ra	te of 40 plants/ft2 PLS.
For Plugs, the minimum planting density is one plug every 1.5 feet bank stabilization (bioengineering) or where otherwise determined practice 342-Critical Area Seeding.	

For Plug Collection, Identify Necessary Permits or Permissions:	
---	--

III. b. Natural Regeneration (if applicable)

Does the site demonstrate that native seeds and propagules are present? \boxtimes Yes (If No, this practice may not be used) Is it expected that the site will reach its full potential within two years? \boxtimes Yes (If No, this practice may not be used) Describe the regeneration plan and what management actions will be taken to facilitate regeneration:

IV. Site Preparation and Establishment

Refer to the guidance provided in the practice specification. If additional guidance is needed, provide the details below.

V. Operation & Maintenance

The following actions shall be carried out to ensure that this practice functions as intended throughout its expected life. These actions include normal repetitive activities in the application and use of the practice, and repair and upkeep of the practice.

- Conditions shall be evaluated and compared to desired conditions on a regular basis; to be able to quickly adjust the conservation plan. If it is not progressing or functioning as intended, contact NRCS for technical assistance.
- If damages are identified (such as erosion or damaged/dead plants) contact NRCS for technical assistance.
- Replacement of plugs will be required until the intended functions of the practice are accomplished.

VI. Management

Management systems applied will be designed to maintain or improve the vigor and reproduction of the desired plant community. Ensure that practice criteria, for the intended purpose(s), are addressed.

Protect the riparian vegetation and water quality by reducing or excluding haying and grazing until the desired plant community is well established (generally defined as two years). *Describe how this will be accomplished*:

Timing, intensity and duration of haying or grazing, after the establishment period, will be designed to sustain riparian functions and values (inc. maintaining and improving plant reproduction). *Describe how this will be accomplished*: Grazin the area 2 times per year, in late fall and early spring

Harmful pests (including noxious, invasive weeds) present will be controlled or eliminated as necessary to achieve and maintain the intended purposes. *Describe how this will be accomplished*:

Refer to Herbaceous Weed treatment (CPS 315) Implementation requirement.

Additional actions

D 1				
Desig	an A	ppr	ovai	:

Practice	Practice Name	Lead	Controlling	Units		Jo	b class				
Code	Fractice Name	Discipline	factor	Ullits		II	III	IV	V		
390	Riparian Herbaceous Cover	us Wildlife Biologist	Weed Pressure	degree	Low: No invasive/ aggressive weed species present	Medium: Invasive/ aggressive weed species (10% cover or less)	High: Invasive/ aggressive weed species (>20% <50% cover)	Very High: Invasive species (>50% cover)	All		
			ı		Species Planted	Number	3	5	8	All	All
			Precipitation	Inches	Saturated soils	Irrigated	>18	<18, >12	<12, >9		
			Stream Bank Degradation	Degree	6-8	3-5	0-2	All	All		
	This practice is classified as Job Class (check one):										

Design Approved by: /s/	Date:	
Job title:		

Client's Acknowledgement Statement:

The Client acknowledges that:

- a. They have received a copy of the maps, drawings, specification, and implementation requirements, and that they understand the contents.
- b. They have obtained all the necessary permits
- c. No changes will be made in the installation of the job without prior concurrence of the NRCS technician.
- d. Maintenance of the installed work is necessary for proper performance during the project life.
- e. Landowner assume all liability for any damages that may occur as a result of this practice.

Accepted By: /s/	Date:
NRCS Approval:	
Approved By: /s/	Date:

Certification:

I have completed an on-site inspections or a review of the information provided by the client and certify this practice has been applied according to standards and specifications.

Completion Certified By: /s/	Date:	
Job title:		
Job lille		

IMPLEMENTATION REQUIREMENTS FOR 391 – RIPARIAN FOREST BUFFER

For: Business Name	Sierra Foothill Conser	vancy - McKenzi	e Preserve	
Job Location 22477 Auberry I	Rd, Clovis, CA 93619			
County Fresno, CA	RCD Sierra RCD		Farm/Tract No)
Purpose: _X_ Lower Water Tem	perature _X_ lı	ntercept sedimen	t, nutrients, pesti	cides, other items
X Wildlife Habitat	Other (Specify)			
IT SHALL BE THE RESPONSIE AND/OR RIGHTS, AND TO CO INSTALLATION.				
Installation shall be in accordanc NO CHANGES ARE TO BE MAI APPROVAL OF THE NRCS.				
Design Planting Sketch Attach	ched			
2. Practice Specifications 391	,,	,	,	
3. Soil or suitability group Ah	wahnee very rocky coa	arse sandy loam,		
4. Area to be planted: Length	360 ft Width	20 ft	Acres 0.2	
5. Species Avg Rov	v Spacing Avg F	lant Spacing	Amour	nt/acre
Planting cottonwood and	l willow on both sides	of the creek, the	total area to be p	lanted is
approximately 0.2 acres.				
<u>:</u>				
	Appro	x. total number p	per acre: 0.2	<u> </u>
6. Planting Operation:	7 7 7 7			
Planting shall be perforn	ned within the period:	Planting in ear	ly spring	
Planting Method: (circle) Tree Planter	Auger X	Hand x Other	
7. Irrigation: <u>Type</u>	(Circle) N	lone X	Preplant	
8. Weed and Pest Control	N/A			

9.	Establishment Protection: N/A		<u>-</u>
10.	Other Management and Maintenance	N/A	

PRACTICE SPECIFICATION PREPRATION:

Practice Code	Lead	Controlling	l leite		Job c	lass		
and Name	Discipline	factors	Units	I	II	III	IV	V
391 Riparian Forest Buffer	ESD-For (& CED-LA & ESD-Wbio)	. &	Type of planting stock, potential seedling mortality rating, and harvest equipment operability ratings from Soil Survey.	Container stock; potential seedling mortality low; harvest equip operability well suited	Bare-root stock or cuttings; potential seedling mortality moderate; harvest equip operability moderately suited	Direct seeding or natural regeneration; any seedling mortality rating, any harvest equip. operability rating	All	All
		Stream Order	Number	Stream orders 1 & 2	Stream order 3	Stream order > 3 or specific wildlife requirements	All	All
For this proj	ect, this prac	ctice is classified						

Prepared by:	Date:
Design Approved by:	Date:

LANDOWNER'S/OPERATOR'S ACKNOWLEDGEMENT:

The landowner/operator acknowledges that:

- a. He/she has received a copy of the drawings and specifications, and that he/she has an understanding of the contents, and the requirements.
- b. He/she has obtained all the necessary permits.
- c. No changes will be made in the installation of the job without prior concurrence of the NRCS.

NRCS, CA July 2022

d. Maintenance of the histaned work is necess	sary for proper performance during the project me.
Accepted by:	Date:
PRACTICE COMPLETION:	
I have made an on-site inspection of the site (or practice meets NRCS standards and specification)	I am accepting owner/contractor documentation), and certify the ons.
Completion Certification by:	
/s/	Date:



528 – Prescribed Grazing, Perennial Rangeland Implementation Requirements

Client	Sierra Foothill Conservancy - McKenzie Preserve	Date	6/3/2024
Farm/Tract		Field(s)	South, Filaree
Location	22477 Auberry Rd, Clovis, CA 93619	Acres	1800 acre
Planner	Harol Gonzalez Gallardo	County/RCD	Sierra RCD

Grazing Season for this implementation requirement

Month Year – Month Year

IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO OBTAIN ALL NECESSARY PERMITS AND/OR RIGHTS, AND TO COMPLY WITH ALL ORDINANCES AND LAWS PERTAINING TO THIS INSTALLATION.

Installation shall be in accordance with the following specifications and implementation requirements. NO CHANGES ARE TO BE MADE IN THE SPECIFICATIONS AND IMPLEMENTATION REQUIREMENTS WITHOUT PRIOR APPROVAL OF THE NRCS TECHNICIAN.

1.	Management Objectives (check one or more):
\boxtimes	Improve or maintain desired species composition, structure and/or vigor of plant communities.
\boxtimes	Improve or maintain quantity and/or quality of forage for grazing and browsing animals' health and productivity.
	Improve or maintain surface and/or subsurface water quality and/or quantity.
	Improve or maintain riparian and/or watershed function.
\boxtimes	Reduce soil erosion and maintain or improve soil health.
	Improve or maintain the quantity, quality, or connectivity of food and/or cover available for wildlife.
	Manage fine fuel loads to achieve desired conditions.
SF Mo	Anagement Objective Narrative(s) (include what to measure, where, when, etc.): C plans to use prescriptive grazing as a management tool to address resource concerns and enhance the biodiversity on EKenzie Preserve. Diversity of grasses, forbs, and functional groups are of high importance to SFC as well as hydrologic action, soil health, a functioning riparian plant community, health and viability of vernal pools, and upland wildlife habitat.

2. Practice Specifications Attached: 528 – Prescribed Grazing, Perennial Rangeland

3. Resource Inventory:

Identify existing resource conditions and concerns, ecological sites or forage suitability groups for each management unit. Include opportunities to enhance resource conditions in notes on inventory forms or other appropriate documentation. Locate structural improvements such as fences and water developments on maps and describe their condition and any use limitations (seasonal availability, water quality, water quantity, age, etc.). See CA-528A Specification for more information.

Additional Narrative:

Stream erosion, road erosion, plant diversity and reproduction, and bare ground were all identified as resource concerns during field visits.

4. Feed and Forage Balance	
DEFERMENT ONLY: Prescribed Grazing deferment is needed to facilitate management objections.	ctives. Feed and forage
balance is achieved since there will be no livestock grazing on management area. Post-deferment been discussed with the landowner and long-term grazing strategies have been identified. At this and livestock demand is not needed to achieve a feed and forage balance.	
Additional Narrative:	

Operation Na	me and L	ocation:		Sierra Lar	nds Reef -	McKenzie P	reserve		1	ast Revision:	1/29/15			
Field Number or Name		Total Available Forage During <u>Normal</u> Production Years (Ibs/ac)	Total Available Forage - <u>Unfavorable</u> Production Years (Ibs/ac)	Perennial Forage System? (yes/no)	Harvest Efficiency Target	Proper Stocking Rate Adjustment	RDM Basis (Ibs/ac)	AUM Perennial System - Normal Production Years	AUM Annual System - <u>Normal</u> Production Years	AUM Perennial System - <u>Unfavorable</u> Years	AUM Annual System -	Animal Months Available - <u>Unfavorable</u> Years	Animal Months Available - <u>Normal</u> Production Years	Animal Days Available - <u>Normal</u> Production Years
South	350.10		476				600		63		-24	-40		3,164
Filaree	314.10	1,271	750				600		117		26	44	195	5,853
Boling	512.20	896	598	no			600		84		-1	-1	140	4,211
Tabletop	153.40			no										
Arc	282.00	1,515	1,005	no			600		143		63	106	239	7,164
Bottom	289.80	1,407	889	no			600		130		46	77	217	6,495
shipping	26.70	1,656	942	no			500		17		7	11	29	858
Total:	1,928.30						Total: Total Ava	0.0			118.0 554.9	196.6	925	27,745
								ilable AUM			118.0			

See attached Feed and Forage Balance for additional detail.

5. Prescribed Grazing Strategy

Timing and duration of grazing by livestock will be based on the rate of growth, length of recovery period and degree of use of the following plant species in the corresponding fields. Timing, intensity, frequency, and duration of use are modified as needed to meet vegetation objectives.

Critical period use in any grazing unit will be limited to a maximum frequency of once every other year.

Critical Period (CP):	Boot Stage (or seed set) of MU key species
Grazing Unit(s) NOT grazed during CP:	
Most (2/3) of the individual plants of the mapercent or a minimum remaining stubble here. See attached grazing schedules ar	
Additional Narrative:	

6. Special Considerations:

Provide additional specifications for grazing in unique and/or sensitive areas (riparian areas, critical habitat, grazed woodland, irrigated/wet pasture conditions, cultural resource sites, etc.).

Additional Narrative:	

7. Wildlife Considerations:

Grazing management maintains enough standing forage for resident and transient wildlife use (harvest efficiency for livestock is not exceeded).

Additional Narrative:

SFC would like to use grazing as a management tool to retain the natural hydrology of the vernal pools so that they will be more resilient against invasion by exotic grasses. Medusahead has been observed colonizing the McKenzie Table where most of the vernal pools occur. However, half the table is owned by Bureau of Land Management (BLM), meaning grazing for vernal management is contingent on a management agreement with BLM. Currently, BLM does not allow grazing of the Table Mountains.

8. Threatened & Endangered Species or Species of Concern Considerations:

Grazing schedule/strategy considers and is integrated with the needs of T&E species.

Additional Narrative:

9. Contingency Plan / Options

Provide for alternative sources of forage and/or roughage during periods of drought, flood, or other occurrence to prevent overuse of plant communities, degradation of ecological condition, or adverse effects to animal health.

Additional Narrative:

In the event of a catastrophic event such as wildfire, drought, or disease/pest infestations, managers need a plan to help them keep a viable operation in such circumstances. These events can result in significant loss of forage that affects carrying capacity.

10. Monitoring Plan

Grazing utilization levels will be monitored at each key grazing area.

Photos at repeatable photo points for each key grazing area and areas of special concern identified in the planning process will be taken.

Additional Narrative:

SFC will keep records of how many stockers are brought onto the McKenzie and dates of moves between pastures. Total forage production will be measured using grass clipping at peak standing crop in May at 9 locations across the ranch in 3 slope classifications. Across the ranch, slope has been broken into 3 classifications: 0-10, 10-20, and 20-40 degrees. This sampling will be performed by SFC's

11. Additional Specifications:

Additional Narrative:

12. Operation and Maintenance

Operation: Prescribed Grazing will be applied on a continuing basis throughout the occupation period of all grazing units. Adjustments will be made as needed to ensure that the goals and objectives of the prescribed grazing strategy are met.

Maintenance: Monitoring data and grazing records will be used on a regular basis within the prescribed grazing plan to ensure that objectives are being met. All facilitating practices (i.e., fence, watering facilities, etc.) that are needed to effect adequate grazing distribution as planned by this practice standard will be maintained in good working order.

Additional Narrative:		

528-IR-Perennial Rangeland-4

PRESCRIBED GRAZING SCHEDULE

			PKI	ESUR	IDED	GRA	ZING	36		טע	LE			
Client		Mckenzie	e Prese	erve				D	ate		6/	3/2024		
Farm/Tra	ract Planne						r		arol Gonz	zalez Ga	llardo			
Herd Na	me													
			Se	ason for	this gra	zing sch	edule	20)aa – 2	20bb				
No.	Aniı	mal Clas	s A	UE					No.		Anin	nal Class	AUI	Ξ
300		vs (w/calt		00	1							arlings	0.70	
		Heifers		70								lorses	1.25	5
		Bulls	1.	35	1						(Other:		
m de	rage ba anagen efermen	llance is a nent has b it schedule	chieved een dis e below.		e will be n	o livestoc	k grazing d long-teri	on ma m graz	nagem ing stra	ent a	irea. Po es have	st-deferm been ider	ent grazii ntified. Ide	ng entify
Start Date	En	d Date	Manag	ement Unit			Acres	AUI Nee			is ilable	Target RDM	Key Sp	pecie(s)
						TOTALS								
Managem	ent Un	it Oct.	Nov	. Dec.	Jan.	Feb.	Mar.	Apr.	M	ay	Jun.	Jul.	Aug.	Sep.
									-					
									+					
			· ·	ı	i	i	i .			H		ı	i	i
Notes:														

Design Approval:

Practice	de Practice Lead Controlling factor		Controlling footon	Huito			Job class		
code No.	Practice	Discipline	, and the second	Units	1	II	III	IV	V
528	Prescribed Grazing	Grazing Land Specialist	Veg Types & Complexity Factor (# grazing units) & Scope (# of Herds)	# of Veg Types # of Grazing Units Herd #'s	1 Veg Type <=4 Pasture <=1 Herd	<2 Veg Types <= 7 Pastures <=3 Herds		<6 Veg Types <=15 Pastures <=5 Herds	Un- limited
	Th	is practice i	s classified as Job C	Class (check one):					
Design	Approved E	By: /s/					Date:		
Job title	·								
LAND	OWNEDIC	ODED AT	ODIC ACUNOWI	EDCEMENT.					
			OR'S ACKNOWI	LEDGEMENT:					
	•		owledges that:						
	/she has rec requirement		by of the drawings	and specification	s, and that h	ne/she has an un	derstanding of	the contents, a	ınd
b. He	/she has ob	tained all th	ne necessary permit	S.					
c. No	changes w	ill be made	in the installation of	of the job withou	t prior conc	urrence of the N	NRCS technicia	ın.	
d. Ma	aintenance o	of the instal	led work is necessa	ry for proper per	formance d	uring the projec	et life.		
Accepto	ed by:				Date	:			
-	•	lowing Ass	sociated Conserv	ation Practice I			nents [X]		
	Access (Control 472		[Pres	cribed Burning	338		
	Upland V	Vildlife Hab	itat Management 6	45 [Wetl	and Wildlife Hal	oitat Managem	ent 644	
	Brush M	anagement	314]	Critic	cal Area Seeding	g 342		
\boxtimes	Fence 38	32		[Wate	ering Facility 61	4		
	Pipeline	516]	Sprir	ng Development	t 574		
	Range P	lanting 550]	Othe	r:			

PRACTICE COMPLETION:

The client has provided certification documentation. Options and acceptable forms of documentation are listed below, it has been reviewed, meets the specifications and will be placed in the case file.

- Monitoring Manual for Grassland, Shrubland, and Savanna Ecosystems methods
- · Livestock herd management records
- Utilization records for key grazing areas indicating the protective nature of the grazing strategy to the sensitive areas.
- A map delineating sensitive areas to be protected.
- Grazing start/end records
- WHEG evaluation before implementation and after implementation of grazing strategy.
- Records of targeted grazing treatments, rate applied, timing, etc. Grazing records must support the herbicide label requirements for re-entry or grazing restrictions if/when used in conjunction with chemical herbicide. Map(s) delineating the area that was treated.
- Rangeland Health Evaluation Sheet is completed per Technical Reference

•	Other (Brief Description):		

I have completed a review of the information provided by the client and certify this practice with field verification has been applied according to this specification.

Multiple CIN Certification Table

		Widitiple City Certi			
CIN#	ACRES	SIGNATURE & DATE	CIN#	ACRES	SIGNATURE & DATE

have made an on-site inspection of the site (or I am accepting owner/contractor documentation), and certify the ractice meets NRCS standards, specifications and implementation requirements.						
s/	Date					

U.S DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE CALIFORNIA

IMPLEMENTATION REQUIREMENTS FOR

317 - COMPOSTING FACILITY

For:	Business Name Sierra Foothill Conservancy - McKenzie Preserve							
	Job Location 22477 Auberry Rd, Clovis, CA, 93619							
	County Fresno	RCD	Sierra	RCD		Farm/Tract N	No	
	Referral No	Prepai	red By	Harol Gonz	zalez Gall	lardo Date_	7/11/2024	1
AND/	ALL BE THE RES OR RIGHTS, ANI LLATION.							
CHAN	ation shall be in acc IGES ARE TO BE IE NRCS TECHNI	MADE IN THE						
1. Dra	wings, No. <u>See Cor</u>	nposting facility	Plan					
2. Pra	ctice Specifications	Structural Deta	ils ,	Plan showi	ng layout	and location		
will ox	ecial Requirements: Eygenate the tea. If sea kelp. A 60 ga	The Tea is 5 cu	ps of eart	hworm castin	gs, 5 tabl	espoons of bl	ack strip mo	
4. Spe	cial Maintenance F	Requirements:	Tea Br	ewer needs to	be clean	ed after eat us	se, rinsed.	

PRACTICE APPROVAL: Job Classification: (Ref: Section 501 NEM) Show the limiting elements for this job. This job is classified as, Class Limiting elements: Units Litter/Manure/Organic Material Earthworm casting Sea Kelp Black strip molasses Design Approved by:______ Date:_____ LANDOWNER'S/OPERATOR'S ACKNOWLEDGEMENT: The landowner/operator acknowledges that: He/she has received a copy of the construction drawings and specification, and that he/she has an understanding of the contents, and the requirements. b. He/she has obtained all the necessary permits. c. No changes will be made in the installation of the job without prior concurrence of the NRCS technician. d. Maintenance of the installed work is necessary for proper performance during the project life. Accepted by: _____ Date: _____ PRACTICE COMPLETION:

I have made an on-site inspection of the site (or I am accepting owner/contractor documentation), and certify the

/s/_____Date ____

practice meets NRCS standards and specifications.

Completion Certification by:

U.S DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE CALIFORNIA

IMPLEMENTATION REQUIREMENTS FOR 362 – DIVERSION

For:	Business	s Name_	Sierra Foothill Co	onservancy - McKenzie Preserve
Job Loc	ation	22477 A	Auberry RD, Clovi	s, CA, 93619
County_	Fresno	_RCD	Sierra RCD	Farm/Tract No
Referral	No		_Prepared By	Date
AND/O		TS, AND		OF THE OWNER TO OBTAIN ALL NECESSARY PERMITS VITH ALL ORDINANCES AND LAWS PERTAINING TO THIS
CHANC		TO BE	MADE IN THE D	Following drawings, specifications and special requirements. NO PRAWINGS OR SPECIFICATIONS WITHOUT PRIOR APPROVAL
1. Draw	ings, No	•		
of the er	osion in	a tile like	fashion then built	aring erosion issues with on site materials. Rocks are started on the floor tup on the sides with smaller aggregates to fill any gaps and spaces. red.
			naller aggregates a	are tamped in with appropriate sized tools. The rock is worked within the necessary.
4. Spec	ial Requi	rements:	On site rock mate	erials and road based decomposed granite.
				_
				·
that they	are struc	cturally s		Structures are checked yearly and after big weather events to make sure llations are designed to slowly trap sediment and fill in over the years. ethe process.

PRACTICE APPROVAL: Job Classification: (Ref: Section 501 NEM) This job is classified as, Class Show the limiting elements for this job. Units Limiting elements: Design Capacity ____cfs Design Approved by:______ Date:_____ LANDOWNER'S/OPERATOR'S ACKNOWLEDGEMENT: The landowner/operator acknowledges that: a. He/she has received a copy of the construction drawings and specification, and that he/she has an understanding of the contents, and the requirements. He/she has obtained all the necessary permits. No changes will be made in the installation of the job without prior concurrence of the NRCS technician. Maintenance of the installed work is necessary for proper performance during the project life. Accepted by:______ Date:_____ PRACTICE COMPLETION: I have made an on-site inspection of the site (or I am accepting owner/contractor documentation), and certify the practice meets NRCS standards and specifications. Completion Certification by:

/s/_____Date ____

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE CONSERVATION ASSISTANCE NOTES NRCS-CPA-6 11-97								
LAND USER		ADDRESS	ADDRESS ACREAGE LOCATION C					
McKenzie P	reserve	22477 Auberry Rd, Clovis, CA 93619	22477 Auberry Rd, Clovis, CA 93619 2960 Fresno					
CURRENT CONS	Current conservation objectives Carbon Farm Plan, Implement cover crops to prevent erosion and improve soil he							
Apply comp	ost to increase o	organic matter levels, Implement a Nutrie	nt Management	Plan to improve crop and	l soil health			
and fertilize	er efficiency							
	LE ALTERNATIVE ves change record then	RESOURCE MANAGEMENT SYSTEMS THE Nn in the notes)	NRCS CONSERVAT	IONIS TMIGHT CONSIDER	WITH THE LAND			
NOTES OF SIGNIFICANT ASSISTANCE PROVIDED, ALTERNATIVES CONSIDERED, DECISIONS R FACHED, RESOURCE MANAGEMENT SYSTEMS OR COMPONENT PRACTICES INSTALLED, AND FOLLOWUP PROVIDED MAY BE RECORDED CHRONOLOGICALLY BEL WAND ON ADDITIONAL PAGES TO PROVIDE A HISTORY OF RESOURCE CONSERVATION PLANNING AND IMPLEMENTATION ACTIVITIES WITH THE LAND USE RINCLUDE AND EVALUATION OF SIGNIFICANT AND SOCIAL, CULTURAL, ECONOMIC, AND ENVIRONMENTAL RESOURCES. (These included consideratio ofiwetlands, flood plains, endangered species, archeological values, prime lands, etc.)								
DATE	ASSISTED BY (initials)		NOTES					
2-20-24	H66	Grower Outreach	Grower Outreach					
3-14-24	146e	1st Field Visit						
4-15-24	466	Soil Sampling						
4-17-24	466	Map creation						
4-2524	466	Carbon Farm Plan goals						
5-15-24	466	2nd Field Visit and grower interview.						
5-21-24	1466	Existing Farm Practices Discussion						
5-21-24	466	Comet-Planner Existing Practices						
6-10-24	466	Comet-Planner Proposed Pracices						
6-10-74	466	Implementation and timeline development						
7-1-24	1466	Implementation Map development						
7-1-24	1. F 66	Soil properties map creation						
7-10-21	H66	Carbon Farm Plan document development.						
7-1(-24	1466	Meeting with grower to discuss carbon	farm plan					
	1466	Grower Signature						