

DIPS

DONNER LAKE
INTERAGENCY
PARTNERSHIP FOR
STEWARDSHIP

2022
STEWARDSHIP
PLAN
NOVEMBER 2022

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1. Purpose and Background



Purpose and Background

Purpose

A coordinated stewardship plan to protect and enhance the long-term ecological and community health of Donner Lake



Photo: cbec

DONNER LAKE INTERAGENCY PARTNERSHIP FOR STEWARDSHIP



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Purpose and Background

Benefits of Coordinated Stewardship Plan

- Comprehensive
- Address use, funding, and management
- Understand threat and opportunity
- Framework for action and policy
- Maximize impact and efficiency
- Cross-jurisdictional collaboration



Purpose and Background

Background and context – Natural history

- East of the Sierra Nevada crest
- Natural freshwater lake formed through glacial action and faulting
- 6,000 feet elevation and 328 feet at its deepest
- Approximately 3 miles long, 3/4 mile wide, and approximately 7 miles around
- 3 tributaries on western end (Summit, Gregory, and Lakeview Creeks) and 1 outlet on eastern end (Donner Creek)
- Mean daily temperatures range from 82/42°F in July to 39/15°F in January
- Average annual precipitation 32.10 inches, falling mainly as snow November-January
- Diverse mosaic of habitat and species



Purpose and Background

Background and context – Human history



- One of the most culturally and historically significant areas in California
 - Washoe Indians occupied and traded in the area for more than 10,000 years, but their origin story puts them in the area since the beginning
 - Site of the Emigrant Trail, the Donner Party, first transcontinental railroad, first transcontinental highway, first transcontinental air route, and first transcontinental telephone line
- More recent impacts include transportation, timber harvest, reservoir management, fishing, utility corridors, and land development
- Approximately 1,500 full time residents, and 6,000+ people on holidays and summer

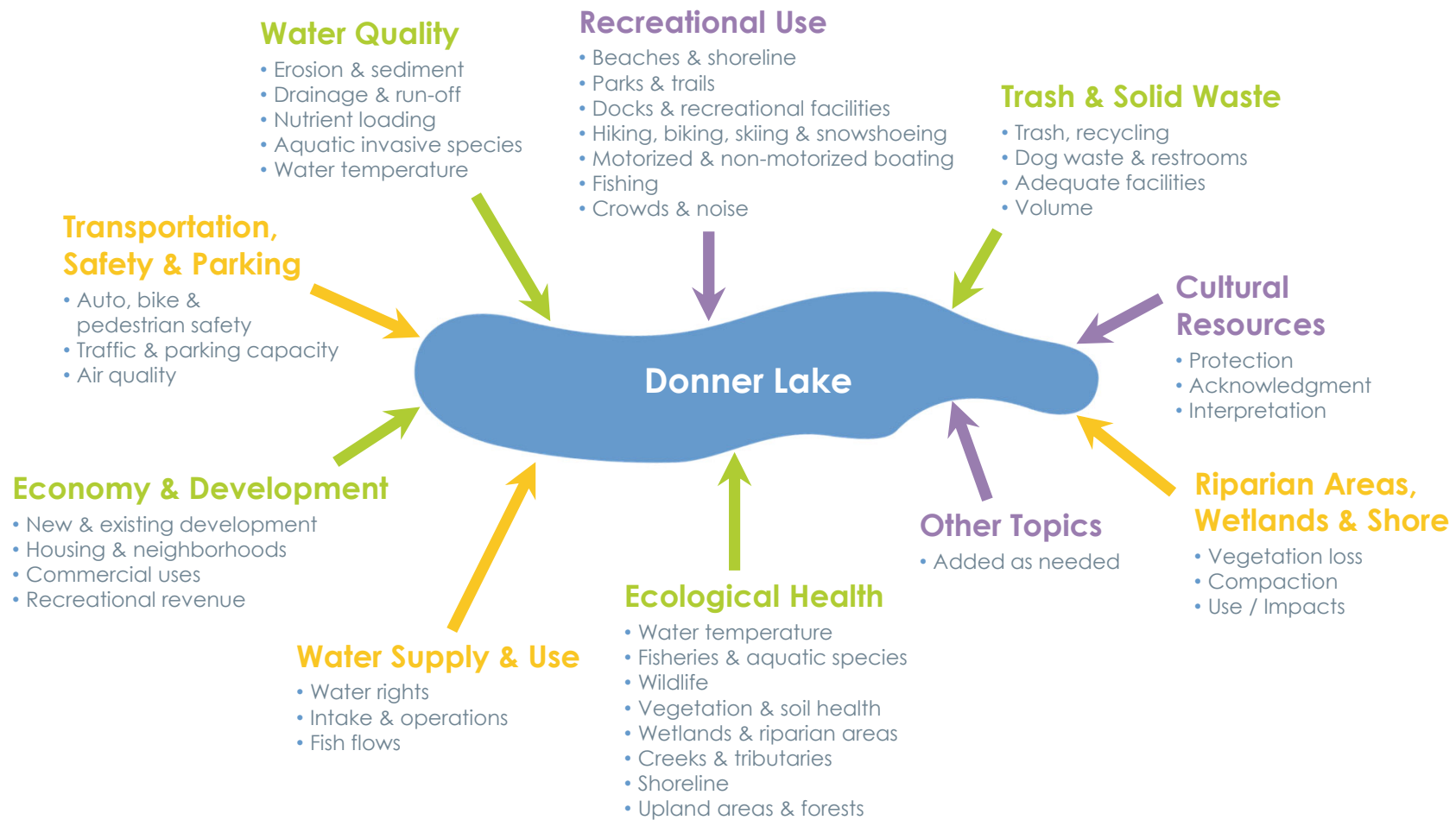


Purpose and Background

Background and context – Contemporary Management

- Numerous land managers, water rights holders, and other stakeholders
- Permanent open space
- Lake level is controlled by a man-made dam constructed in 1928
 - Regulated outflow
 - The maximum water surface area is 960 acres
 - Active storage is 10,000 acre-feet
- Residential and Commercial areas

Key Topics



Stewardship Plan Framework



Purpose and Background

Timeline



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2. Agency and Stakeholder Context



Agency and Stakeholder Context

Core Team

- California State Parks
- Tahoe Donner Association
- Town of Truckee
- Truckee Donner Land Trust
- Truckee Donner Public Utility District
- Truckee Donner Recreation and Parks District
- Truckee Meadows Water Authority
- Truckee Sanitary District
- Truckee River Watershed Council, convener/facilitator



Agency and Stakeholder Context

Collaborative Structure

- Non-binding voluntary collaboration
- Core Team to provide overall strategic direction
- Modified consensus model
- Stakeholders provide input and advice and can participate in planning

3. Summary of State of Donner Lake



Summary of State of Donner Lake

Ecological & Community Conditions

Ecological	Community
<ul style="list-style-type: none">• Global Water Center, University of Nevada at Reno• Inconsistent past data• Data collection starting in 2021• Ongoing• Preliminary conditions and recommendations	<ul style="list-style-type: none">• DIPS Core Team• Limited past data• Data collection starting in 2021• Ongoing and expanding• Preliminary conditions



Ecological Findings and Recommendations

1. Water quality in the NEARSHORE habitat is degrading. Changes in the nearshore habitat are influenced by the changes in biological structure (e.g. invasive species, runoff, and internal mixing dynamics in lakes).

Recommendations:

- Establish a nearshore water quality and biological monitoring program.
- Water quality and production can be determined using high frequency oxygen/ temp probes, a weather station, and collections of water quality samples for nutrients in the sediments and water column.
- Biological monitoring would include an assessment of invasive species (crayfish and catfish densities) at the end of summer around the lake



Summary of State of Donner Lake

Ecological Findings and Recommendations (continued)

2. Water quality in the OFFSHORE open water habitat seems to have improved since past collections were made in Donner Lake.

Recommendation:

- Establish a primary water quality station in the center of the lake
- Deploy a water quality sonde with a suite of sensors that can profile at the center of the lake for temperature, oxygen, conductivity

Ecological Findings and Recommendations (continued)

3. Biology has changed. Two native fish species that were expected (mountain whitefish and Paiute sculpin) were not observed. Native zooplankton like Daphnia have returned since samplings in the late 1970s and early 1980s. This indicates that Daphnia and mysids can coexist in Donner Lake while, in other lakes (e.g. Tahoe), mysid predation has led to the near elimination of native Daphnia. This "coexistence" may change over time depending on the water quality conditions and changes in the growth rates of plankton.

Recommendation:

- Establish a biological monitoring program for fishes, mysids, and zooplankton (2-3 times per year, late spring, early summer and summer)



Summary of State of Donner Lake

Community Conditions Preliminary Findings and Recommendations

- Most intense development on boundaries of lake
- Peak residential and recreational usage July and other holidays
- Improvements planned by most major landowners and water rights owners
- Recommendations for future data collection:
 - Continue to collect trending data (annually): paid admissions, boat launches, watercraft rentals, sewage flows
 - Collect stable data periodically (as needed, 5-10 years): Population, zoning, unpaved surface condition, housing supply, development permits
 - Look to improve data collection: economic indicators, stormwater management, transit



4. Goals, Indicators, and Actions



Goals, Indicators, and Actions

Goals

1. Collaborative, Multi-Agency Structure
2. Water Quality
3. Ecological Health
4. Cultural and Historic Resources
5. Recreational Use and Capacity
6. Transportation, Safety, and Parking
7. Community Health



Goals, Indicators, and Actions

Goal 1. Collaborative, Multi-Agency Structure

Plan, fund and implement a multi-agency stewardship structure that encourages a commitment to common goals, balances competing and evolving interests, and increases coordination between organizations.

1.1. Key Topics

- a. Shared decision-making
- b. Cross-agency action and policies
- c. Coordinated communication

1.2 Indicators: signed charter, annual meetings, planning document updates, funding committed/secured, number of organizations involved, actions completed

Goals, Indicators, and Actions

Goal 1. Collaborative, Multi-agency Structure (cont.)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
1.3.1 DIPS charter – Develop and ratify	TRWC	DIPS	L	December 2022	In progress
1.3.2 State of Donner Lake – Compile and analyze data including physical/chemical/biological and social/community monitoring	TRWC	DIPS	L	June 2021 and annually	2021 Complete 2022 In progress
1.3.3 Stewardship Plan – Develop, update and prioritize goals, action plan, and funding strategy	TRWC	DIPS	L	September 2022 and annually	In progress
1.3.4 DIPS communications – Develop strategy and protocol including considering future “Donner Day” conference to bring stakeholders together and share progress with the community	TRWC	DIPS	L	2023	Recommended

[L](#) L = < \$10K, M = \$10K to \$100K, H = \$100K to \$500K

Goal 2. Water Quality

Protect water quality in and around Donner Lake for ecological, recreational, and water supply purposes.

2.1. Key Topics

- a. Protecting Beneficial Uses
- b. Erosion, Sediment and Run-off
- c. Nutrient Loading and Dissolved Oxygen
- d. Water Temperature and pH
- e. Oil and Grease
- f. Trash
- g. Infrastructure

2.2 Indicators: Town grading permits, annual water quality surveys, acres/square footage of erosion control and restoration, trash surveys at key locations (parks, piers, lake bottom), sand and brine application and recovery rates



Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.1 Nearshore water quality monitoring program – Develop and conduct, and coordinate with other monitoring efforts to monitor the long-term health of the lake	TRWC	DIPS	M	2021 and annually	In progress
2.3.2 Offshore water quality monitoring program – Develop and conduct, and coordinate with other monitoring efforts to monitor the long-term health of the lake	TRWC	DIPS	H	2021 and annually	In progress

Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.3 Boat Ramp improvements – Design and complete to upgrade and improve the existing facilities including extending existing ramp, slope protection, boarding floats, parking improvements, ADA-compliant access, and replacing the restroom and fish cleaning station (see also Goal 3. Ecology and Goal 6. Transportation)	TDRPD	State Lands Commission	H	Summer 2023	In progress
2.3.4 Water supply operations maintenance and infrastructure improvements – Continue to identify, prioritize, coordinate and complete to meet minimum standards	TMWA		L	Ongoing	In progress

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Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.5 Sanitation Infrastructure and Capacity Improvements – Continue to identify, prioritize, and complete to meet minimum standards	TSD		M	2023-2025	In progress
2.3.6 Stormwater monitoring – Continue and increase to prioritize management actions and improvements to meet minimum standards	Town		L	Ongoing	In progress

Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.7 Mandatory Watercraft Self-Inspection program – Continue and monitor to protect natural resources, water quality, and commercial viability (see also Goal 3. Ecological Health and Goal 7. Community Health)	Town	TDRPD, TDA	L	Ongoing	In progress
2.3.8 Trash pick-ups – Continue contracted work to protect water quality, improve user experience, and maintain economic viability of area (see also Goal 5. Recreation and Goal 7. Community Health)	Town	Clean Tahoe	L	Summer 2021 and ongoing	In progress

Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.9 Keep Truckee Green – Continue and increase Truckee Litter Corps days, “Grab-a-Bag” program with businesses, and add Adopt-A-Street program (see also Goal 5. Recreation and Goal 7. Community Health)	Keep Truckee Green, Town	Clean Tahoe, local businesses	L	Summer 2020 and annually	In progress
2.3.10 Underwater cleanup and monitoring – Continue and coordinate with other monitoring efforts, including monitoring of litter concentrations, invasive species, and algal blooms (see also Goal 5. Recreation)	Clean Up The Lake	DIPS	M	Summer 2022 and periodic	In progress

Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.11 Parking Enforcement – Continue enforcement of parking restrictions along DPR/north shore of lake to improve pedestrian and cycling safety, manage overcrowding, and reduce erosion (see also Goal 5. Recreation and Goal 6. Transportation)	Truckee PD	TTF	M	Ongoing	In progress
2.3.12 East end parking improvements – Continue to explore options to improve circulation, manage overuse, improve safety, and reduce erosion (see also Goal 3. Ecology, Goal 5. Recreation, and Goal 6. Transportation)	Town	TDA, State Parks	M	2021 and ongoing	In progress

Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.13 Public and private pier construction permitting – Consider updating Town Code to support best practices for permitting and managing piers	Town	State Lands Commission	L	Ongoing	In progress
2.3.14 Stormwater Management Retrofits in Town right-of-way – Identify, prioritize, and complete work, including small-scale BMPs and energy dissipation devices to settling basins or infiltration features	Town	TRWC	M	2030	Recommended

Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.15 Stormwater Management Retrofits needed to address inputs from I-80 – Identify, prioritize, and complete work, including small-scale BMPS and energy dissipation devices to settling basins or infiltration features	Caltrans	Town	H	2035	Recommended
2.3.16 Stormwater Management Retrofit on private streets – Consider how to support work			H	2030	Recommended
2.3.17 South Shore Drive Hillslope Erosion Treatment – Design, complete and monitor to reduce erosion	Town, TRWC	DIPS	M	2030	Recommended

Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.18 Gregory Creek Bank Protection Retrofit – Design, complete and monitor projects mostly on private residential property to stabilize streambank and reduce erosion (see also Goal 3. Ecological Health)	HOA	Town, TRWC, DIPS	M-H	2030	Recommended
2.3.19 Summit Creek bank stabilization – Design, complete and monitor projects mostly on private residential property to stabilize streambank and reduce erosion (see also Goal 3. Ecological Health)	HOA	Town, TRWC, DIPS	M-H	2030	Recommended

Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.20 Watercraft Inspection Program – Consider building more robust program including gating the public launch to protect natural resources, water quality, and commercial viability (see also Goal 3. Ecological Health and Goal 7. Community Health)	Town	TDRPD, TDA	H	Ongoing	Recommended
2.3.21 Bank stabilization and foot trail improvements at public piers – Design and complete in coordination with ongoing maintenance and upgrades of 2-3 piers/year (see also Goal 3. Ecology and Goal 5. Recreation)	TDRPD, Town	TRWC, State Parks	L	Annually	Recommended

Goals, Indicators, and Actions

Goal 2. Water Quality (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
2.3.22 West end parking improvements – Identify and complete to improve circulation, manage overuse, improve safety, and reduce erosion (see also Goal 3. Ecology, Goal 5. Recreation, and Goal 6. Transportation)	Town, TDRPD	DIPS	M	2025	Recommended

Goals, Indicators, and Actions

Goal 3. Ecological Health

Improve ecological health and resiliency to benefit nature and humanity by protecting, improving, and restoring aquatic, riparian and upland areas.

3.1. Key Topics

- a. Fisheries and aquatic species
- b. Aquatic Invasive Species
- c. Terrestrial Wildlife
- d. Vegetation and soil health
- e. Wetlands, creeks and riparian zones
- f. Upland areas and forests

3.2 Indicators: Annual fish surveys, tissue sampling, incidences of invasive species, acres fuels reduction, acres ecosystem restoration



Goals, Indicators, and Actions

Goal 3. Ecological Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
3.3.1 Donner Lake Lagoon Restoration and Public Access Improvement – Complete and monitor to stabilize banks, protect resources, and improve recreational access (see also Goal 4. Cultural Resources and Goal 5. Recreation)	State Parks	TRWC	M	Fall 2022	In progress
3.3.2 State Parks Forest Health and Fuels management <ul style="list-style-type: none"> - Schallenberger Ridge - Summit Canyon - Future projects - Campgrounds 	State Parks	TDLT, USFS, CalFire, Truckee Fire	H	Summer 2022 and ongoing	In progress

Goals, Indicators, and Actions

Goal 3. Ecological Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
3.3.3 Truckee Donner Land Trust Forest Health and Fuels management <ul style="list-style-type: none"> - Billy Mack Canyon - Creekside Woods 	TDLT	State Parks, USFS, CalFire, Truckee Fire	H	Summer 2022 and ongoing	In progress
3.3.4 U.S. Forest Service Forest Health and Fuels management <ul style="list-style-type: none"> - Schallenberger Ridge - Future projects 	USFS	State Parks, TDLT, CalFire, Truckee Fire	H	Summer 2022 and ongoing	In progress
3.3.5 Donner Memorial State Park Road and Trail Management Plan – Implementing priority actions to protect natural and cultural resources while maintaining recreational access (see also Goal 4. Cultural Resources and Goal 5. Recreation)	State Parks	TRWC	H	2021 and ongoing	In progress

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Goals, Indicators, and Actions

Goal 3. Ecological Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
3.3.6 Aquatic biological monitoring – Develop and conduct, and coordinate with other monitoring efforts, including fishes, mysids, and zooplankton to monitor the long-term health of the lake	TRWC		M	2021 and annually	In progress
3.3.7 Mandatory Watercraft Self-Inspection program – Continue and monitor to protect natural resources, water quality, and commercial viability (see also Goal 2. Water Quality and Goal 7. Community Health)	Town	TDRPD, TDA	L	Ongoing	In progress

Goals, Indicators, and Actions

Goal 3. Ecological Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
3.3.8 East end parking improvements – Continue to explore options to improve circulation, manage overuse, improve safety, and reduce erosion (see also Goal 2. Water Quality, Goal 5. Recreation, and Goal 6. Transportation)	Town	TDA, State Parks	M	2021 and ongoing	In progress
3.3.9 West end parking improvements – Identify and complete to improve circulation, manage overuse, improve safety, and reduce erosion (see also Goal 2. Water Quality, Goal 5. Recreation, and Goal 6. Transportation)	Town, TDRPD	, DIPS	M	2025	Recommended

Goals, Indicators, and Actions

Goal 3. Ecological Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
3.3.10 Gregory Creek Bank Protection Retrofit – Design, complete and monitor projects mostly on private residential property to stabilize streambank and reduce erosion (see also Goal 2. Water Quality)	HOAs,	Town, TRWC, DIPS	M-H	2030	Recommended
3.3.11 Summit Creek bank stabilization – Design, complete and monitor projects mostly on private residential property to stabilize streambank and reduce erosion (see also Goal 2. Water Quality)	HOAs,	Town, TRWC, DIPS	M-H	2030	Recommended

Goals, Indicators, and Actions

Goal 3. Ecological Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
3.3.12 Terrestrial wildlife studies – Develop and conduct studies to preserve species, protect habitat, and manage threats	State Parks		M	2023	Recommended
3.3.13 Management of informal trails to east end beach – Monitor and develop management actions to protect natural resources and reduce erosion, particular from the Truckee River Legacy Trail and new development	State Parks, Town		L	2023	Recommended

Goals, Indicators, and Actions

Goal 3. Ecological Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
3.3.14 Watercraft Inspection Program – Consider building more robust program including gating the public launch to protect natural resources, water quality, and commercial viability (see also Goal 2. Water Quality and Goal 7. Community Health)	Town	TDRPD, TDA	H	Ongoing	Recommended
3.3.15 Bear-proof dumpsters – Design and implement pilot program with TTSD to protect wildlife and people (see also Goal 5. Recreation)	State Parks	TTSD, TDRPD	L	2023	Recommended
3.3.16 Summit Canyon Legacy Aspen Protection – Design, complete and monitor project to protect and enhance old growth aspen grove	State Parks	TRWC	H	Summer 2023	Recommended

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Goals, Indicators, and Actions

Goal 3. Ecological Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
3.3.17 Bank stabilization and foot trail improvements at public piers – Design and complete in coordination with ongoing maintenance and upgrades of 2-3 piers/year (see also Goal 2. Water Quality and Goal 5. Recreation)	TDRPD, Town	TRWC, State Parks	L	Annually	Recommended

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Goals, Indicators, and Actions

Goal 4. Cultural and Historic Resources

Protect and preserve cultural and historic resources that represent and foster an appreciation for Donner Lake's rich history and diverse populations through cooperation, monitoring, education, research, interpretation, and public awareness.

4.1. Key Topics

- a. Traditional, historic and current culture
- b. Cultural landscapes
- c. Physical archaeological resources
- d. Public knowledge and awareness
- e. Tribal consultation

4.2 Indicators: Inventories, archaeological surveys, evaluations of significance, evaluations of impact, ethnographies, preservation programs



Goals, Indicators, and Actions

Goal 4. Cultural and Historic Resources (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
4.3.1 Historic Donner Pioneer Monument Restoration – Plan and complete repairs to improve the long-term sustainability of the historic resource	State Parks, Sierra State Parks Foundation		M	Fall 2022	Complete
4.3.2 Tribal consultation – Engage and consult with Washoe Tribe of Nevada and California to protect and preserve tribal cultural resources	State Parks	Washoe Tribe	L	Ongoing	In progress
4.3.3 Graffiti removal from Summit Canyon and Railroad tunnels – Continue to monitor and remove to protect integrity of cultural and historic resources	Donner Summit Association	TDLT, USFS, UPR and others	L	Summer 2018 and ongoing	In progress

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Goals, Indicators, and Actions

Goal 4. Cultural and Historic Resources (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
4.3.4 Petroglyph protection – Continue to monitor, protect, and interpret rare historic resource	USFS		L	Ongoing	In progress
4.3.5 Docent/Ambassador program – Continue and coordinate with other docent/ambassador programs to increase knowledge and understanding of unique historic value of the region (see also Goal 5. Recreation)	TTF, Take Care Tahoe	VTT, Town, Nevada County, Sierra State Parks Foundation, DIPS	M	Ongoing	In progress

Goals, Indicators, and Actions

Goal 4. Cultural and Historic Resources (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
4.3.6 Donner Lake Lagoon Restoration and Public Access Improvement – Complete and monitor to stabilize banks, protect resources, and improve recreational access (see also Goal 3. Ecological Health and Goal 5. Recreation)	State Parks	TRWC, Washoe Tribe	M	Fall 2022	In progress
4.3.7 Donner Memorial State Park Road and Trail Management Plan – Implementing priority actions to protect natural and cultural resources while maintaining recreational access (see also Goal 4. Cultural Resources and Goal 5. Recreation)	State Parks	TRWC	H	2021 and ongoing	In progress

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Goals, Indicators, and Actions

Goal 4. Cultural and Historic Resources (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
4.3.8 Cultural Resources Management Plan – Develop to identify, protect, and interpret significant cultural resources	State Parks	Washoe Tribe, DIPS	H	2030	Recommended

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity

Provide a range of high-quality outdoor recreational opportunities that are socially, economically, and ecologically sustainable for present and future generations through coordinated planning, facility improvements, conservation, and maintenance.

5.1. Key Topics

- a. Beaches and Shoreline
- b. Parks and Trails
- c. Docks and Recreational Facilities
- d. Hiking, Biking, Skiing and Snowshoeing
- e. Motorized and Non-Motorized watercraft
- f. Fishing
- g. Events, Crowds and Noise

5.2 Indicators: number of users by use, acres/miles of recreational area, evaluation of facility conditions, natural resources within/adjacent to public use areas, number of large events



Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.1 Boat Ramp improvements – Design and complete to upgrade and improve the existing facilities including extending existing ramp, slope protection, boarding floats, parking improvements, ADA-compliant access, and replacing the restroom and fish cleaning station (see also Goal 2. Water Quality and Goal 6. Transportation)	TDRPD	State Lands Commission	H	Summer 2023	In progress
5.3.2 Donner Lake Rim Trail – Continue to build, maintain and manage 23-mile multi-use trail to increase recreational opportunities and connect existing trail networks	TDLT	State Parks, TDA, TTF, USFS	H	Ongoing	In progress

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.3 Public pier improvements – Continue maintenance and upgrades of 2-3 piers/year	TDRPD		L	Annually	In progress
5.3.3 Donner Lake Lagoon Restoration and Public Access Improvement – Complete and monitor to stabilize banks, protect resources, and improve recreational access (see also Goal 3. Ecological Health and 4. Cultural Resources)	State Parks	TRWC	M	Fall 2022	In progress
5.3.4 Year-round alternative transportation – Continue and increase opportunities including, peak period shuttles, micro-transit, bike share, etc. (see also Goal 6. Transportation)	Town	DIPS	L	2022	In progress

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Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.5 Peak period shuttles – Continue and increase to minimize traffic and improve access to recreation, employment, and services (see also Goal 6. Transportation)	TDA, Town	TART, DSA, Sugarbowl	M	Summer 2021 and ongoing	In progress
5.3.6 Public transit – Continue and increase to minimize traffic and improve access to recreation, employment, and services including increased frequency in winter and later in the evening in late spring and summer (see also Goal 6. Transportation)	Town	TART	M	2022 and ongoing	In progress

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.7 West End winter access – Increase access including increasing number of parking spots by clearing snow at West End Beach and Shoreline Park, opening and maintaining existing public restrooms, and increasing shuttles and public transit during winter (see also Goal 6. Transportation)	Tahoe Backcountry Alliance	TDRPD, TDLT, Donner Lake Woods Homeowners Association	L	Winter 2021 and ongoing	In progress
5.3.8 Donner Memorial State Park Road and Trail Management Plan – Implementing priority actions to protect natural and cultural resources while maintaining recreational access (see also Goal 3. Ecology and Goal 4. Cultural Resources)	State Parks	TRWC	H	2021 and ongoing	In progress

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.9 Parking Enforcement – Continue enforcement of parking restrictions along DPR/north shore of lake to improve pedestrian and cycling safety, manage overcrowding, and reduce erosion (see also Goal 2. Water Quality and Goal 6. Transportation)	Truckee PD	TTF	M	Ongoing	In progress
5.3.10 Boating Enforcement – Continue enforcement of boating safety regulations to improve safety for motorized and non-motorized boaters, swimmers, and other recreational users	Truckee PD		M	Ongoing	In progress



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Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.11 Boat mooring enforcement – Continue and increase enforcement of illegal buoys and 48 hour time limit on public piers	Truckee PD	TDRPD	M	Ongoing	In progress
5.3.12 Trash pick-ups – Continue contracted work to protect water quality, improve user experience, and maintain economic viability of area (see also Goal 2. Water Quality and Goal 7. Community Health)	Town	Clean Tahoe	L	Summer 2021 and ongoing	In progress
5.3.13 Keep Truckee Green – Continue and increase Truckee Litter Corps days, “Grab-a-Bag” program with businesses, and add Adopt-A-Street program (see also Goal 2. Water and Goal 7. Community Health)	Keep Truckee Green, Town	Clean Tahoe, local businesses	L	Summer 2020 and annually	In progress

[L](#) L = < \$10K, M = \$10K to \$100K, H = \$100K to \$500K

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.14 Underwater cleanup and monitoring – Continue and coordinate with other monitoring efforts, including monitoring of litter concentrations, invasive species, and algal blooms (see also Goal 2. Water Quality)	Clean Up The Lake	DIPS	L	Summer 2022 and periodic	In progress
5.3.15 Public outreach – Continue to reinforce responsible use, rules and regulations of trash, waste, public piers, personal watercraft, and resource protection through messaging that is consistent and positive, leveraging existing traditional and social media channels	VTT	State Parks, TDPRD, TDA, Town, TDLT	M	Ongoing	In progress

[L](#) L = < \$10K, M = \$10K to \$100K, H = \$100K to \$500K

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.16 Public Restrooms – Explore need and feasibility of additional restrooms at Summit Creek Canyon and East End Beach	VTT, TTF	TDLT, Donner Summit Association, State Parks	M	2022 and ongoing	In progress
5.3.17 East end parking improvements – Continue to explore options to improve circulation, manage overuse, improve safety, and reduce erosion (see also Goal 2. Water Quality, Goal 3. Ecology, and Goal 6. Transportation)	Town	TDA, State Parks	M	2021 and ongoing	In progress
5.3.18 Large event coordination – Continue and increase coordination to dispatch incidents monitor activity, manage operations	Town	TDRPD, State Parks, Truckee Fire, Truckee PD	L	Ongoing	In progress

[L](#) L = < \$10K, M = \$10K to \$100K, H = \$100K to \$500K

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.19 West end parking improvements – Identify and complete to improve circulation, manage overuse, improve safety, and reduce erosion (see also Goal 2. Water Quality, Goal 3. Ecology, and Goal 6. Transportation)	Town, TDRPD	, DIPS	M	2025	Recommended
5.3.20 Bank stabilization and foot trail improvements at public piers – Design and complete in coordination with ongoing maintenance and upgrades of 2-3 piers/year (see also Goal 2. Water Quality and Goal 3. Ecology)	TDRPD, Town	TRWC, State Parks	M	Annually	Recommended

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.21 Bear-proof dumpsters – Design and implement pilot program with TTSD to protect wildlife and people (see also Goal 3. Ecology)	State Parks	TTSD, TDRPD	L	2023	Recommended
5.3.22 Dog waste stations – Increase number, particularly at East End Beach	State Parks	Town	L	Summer 2023	Recommended
5.3.23 User interviews – Design and conduct to determine key issues at Donner Lake, e.g. boating conflict, bike safety, trash/waste, parking etc. (see also Goal 6. Transportation and Goal 7. Economy)	Town, TDRPD, TRWC	State Parks	L	2023	Recommended

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.24 Peak period assessment/monitoring – Design and conduct to track key issues, including number of users, volume of trash and waste, frequency of trash pick-ups, parking, traffic, boating, noise, etc. (see also Goal 6. Transportation)	Town, State Parks, TDRPD, TDA	TRWC	M	Summer 2023	Recommended
5.3.25 Non-peak period assessment/monitoring – Design and conduct to track key issues, including number of users, volume of trash and waste, frequency of trash pick-ups, parking, traffic, boating, noise, etc.	State Parks, TDRPD, TDA	TRWC	L	Ongoing	Recommended

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.26 Adopt-A-Dock – Consider program in which community, the public, businesses or community groups could sponsor a dock, and make sure it is well maintained, safe, and clean	TDRPD		L	Annually	Recommended
5.3.27 Docent/Ambassador program – Continue and coordinate with other docent/ambassador programs to increase knowledge and understanding of unique historic value of the region (see also Goal 5. Recreation)	TTF, Take Care Tahoe	VTT, Town, Sierra State Parks Foundation, DIPS	M	Ongoing	In progress

Goals, Indicators, and Actions

Goal 5. Recreational Use and Capacity (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
5.3.28 Management of informal trails to east end beach – Monitor and develop management actions to protect natural resources and reduce erosion, particular from the Truckee River Legacy Trail and new development (see also Goal 3. Ecological Health)	State Parks, Town		L	2023	Recommended
5.3.29 Non-Motorized Boating – Assess current availability of non-motorized boating sites and make recommendations needed	Town, TDRPD, State Parks		M	2030	Recommended

Goals, Indicators, and Actions

Goal 6. Transportation, Safety and Parking

Provide access to safe, affordable, accessible, and sustainable transportation systems, improving road safety, and expanding public transportation options without impacts to lake resources.

6.1. Key Topics

- a. Auto, bike and pedestrian safety
- b. Traffic and Parking Capacity
- c. Transportation facilities and lake health

6.2 Indicators: number of accidents, complaints, vehicles, public transit users, transportation improvement projects

Goals, Indicators, and Actions

Goal 6. Transportation, Safety and Parking (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
6.3.1 Boat Ramp improvements – Design and complete to upgrade and improve the existing facilities including extending existing ramp, slope protection, boarding floats, parking improvements, ADA-compliant access, and replacing the restroom and fish cleaning station (see also Goal 2. Water Quality and Goal 3. Ecology)	TDRPD	State Lands Commission	H	Summer 2023	In progress
6.3.2 Parking Enforcement – Continue enforcement of parking restrictions along DPR/north shore of lake to improve pedestrian and cycling safety, manage overcrowding, and reduce erosion (see also Goal 2. Water and Goal 5. Recreation)	Truckee PD	TTF	M	Ongoing	In progress

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Goals, Indicators, and Actions

Goal 6. Transportation, Safety and Parking (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
6.3.3 Year-round alternative transportation – Continue and increase opportunities including peak period shuttles, micro-transit, bike share, etc. (see also Goal 5. Recreation)	Town	DIPS	L	2022 and ongoing	In progress
6.3.4 Peak period shuttles – Continue and increase to minimize traffic and improve access to recreation, employment, and services (see also Goal 5. Recreation)	TDA, Town	TART	M	Summer 2021 and ongoing	In progress

Goals, Indicators, and Actions

Goal 6. Transportation, Safety and Parking (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
6.3.5 Public transit – Continue and increase to minimize traffic and improve access to recreation, employment, and services including increased frequency in winter and later in the evening in late spring and summer (see also Goal 5. Recreation)	Town	TART	M	2022 and ongoing	In progress
6.3.6 East end parking improvements – Continue to explore options to improve circulation, manage overuse, improve safety, and reduce erosion (see also Goal 2. Water Quality, Goal 3. Ecology, and Goal 5. Recreation)	Town	TDA, State Parks	M	2021 and ongoing	In progress

Goals, Indicators, and Actions

Goal 6. Transportation, Safety and Parking (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
6.3.7 West end parking improvements – Identify and complete to improve circulation, manage overuse, improve safety, and reduce erosion (see also Goal 2. Water Quality, Goal 3. Ecology, and Goal 5. Recreation)	Town, TDRPD	, DIPS	M	2025	Recommended
6.3.8 User interviews – Design and conduct to determine key issues at Donner Lake, e.g. boating conflict, bike safety, trash/waste, parking etc. (see also Goal 5. Recreation and Goal 7. Economy)	Town, TDRPD, TRWC	State Parks	L	2023	Recommended

Goals, Indicators, and Actions

Goal 6. Transportation, Safety and Parking (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
6.3.9 Peak period assessment/monitoring – Design and conduct to track key issues, including number of users, volume of trash and waste, frequency of trash pick-ups, parking, traffic, boating, noise, etc. (see also Goal 5. Recreation)	Town, State Parks, TDRPD, TDA	TRWC	M	Summer 2023	Recommended

Goals, Indicators, and Actions

Goal 7. Community Health

Support residential and commercial uses that are compatible with neighborhoods, environment, culture, and people.

7.1. Key Topics

- a. New & existing development
- b. Housing & neighborhoods
- c. Commercial uses
- d. Economic health of surrounding businesses

7.2 Indicators: housing supply and demand, number of new construction permits for residential and commercial development, number of units, square footage, sales and TOT tax data



Goals, Indicators, and Actions

Goal 7. Community Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
7.3.1 Mandatory Watercraft Self-Inspection program – Continue and monitor to protect natural resources, water quality, and commercial viability (see also Goal 2. Water Quality and Goal 3. Ecological Health)	Town	TDRPD, TDA	L	Ongoing	In progress
7.3.2 Trash pick-ups – Continue contracted work to protect water quality, improve user experience, and maintain economic viability of area (see also Goal 2. Water Quality and Goal 5. Recreation)	Town	Clean Tahoe	L	Summer 2021 and ongoing	In progress

Goals, Indicators, and Actions

Goal 7. Community Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
7.3.3 Keep Truckee Green – Continue and increase Truckee Litter Corps days, “Grab-a-Bag” program with businesses, and add Adopt-A-Street program (see also Goal 2. Water and Goal 5. Recreation)	Keep Truckee Green, Town	Clean Tahoe, local businesses	L	Summer 2020 and annually	In progress
7.3.4 Watercraft Inspection Program – Consider building more robust program including gating the public launch to protect natural resources, water quality, and commercial viability (see also Goal 2. Water Quality and Goal 3. Ecological Health)	Town	TDRPD, TDA	H	Ongoing	Recommended

Goals, Indicators, and Actions

Goal 7. Community Health (continued)

Action/Policy	Lead	Support	Cost (L/M/H)	Timing	Status
7.3.5 Town 2040 General Plan and other planning documents – review for completeness with regard to Donner Lake	DIPS		L	2022	Recommended

5. Funding and Financing



Funding and Financing

- Current and ongoing operations and projects – funded by individual organizations
- TRWC planning and facilitation – funded through 2024
- State of Donner Lake – partial funding through 2024
- Stewardship Plan
 - Medium/High-Cost Actions/Policies – seek grant funding
 - Low-Cost Actions/Policies – organizational operations and collaboration

6. Monitoring Progress



Monitoring Progress

- Annual review of the State of Donner Lake
- Annually review of progress on Action Plan
- Adaptive updates

7. Appendices



Appendices

1. Acronyms
2. Core Team contact info
3. 2021 State of Donner Lake

Appendix 1 Acronyms and Abbreviations

Caltrans	California Department of Transportation	Town	Town of Truckee
State Parks	California Department of Parks and Recreation, Sierra District, Donner Memorial State Park	Truckee PD	Truckee Police Department
DIPS	Donner Lake Interagency Partnership for Stewardship	TRWC	Truckee River Watershed Council
DSA	Donner Summit Association	TSD	Truckee Sanitary District
HOA	Homeowners Association	TTF	Truckee Trails Foundation
TART	Tahoe Area Rapid Transit	TTSD	Tahoe Truckee Sierra Disposal
TDA	Tahoe Donner Association	UPR	Union Pacific Railroad
TDLT	Truckee Donner Land Trust	USFS	U.S. Forest Service
TDRPD	Truckee Donner Recreation and Park District	VTT	Visit Truckee Tahoe
TMWA	Truckee Meadows Water Authority	Washoe Tribe	Washoe Tribe of Nevada and California



Appendix 2 Core Team Contact Info

Organization	Point of Contact	Phone	Email
California State Parks	Courtney Rowe	530-489-8001	Courtney.Rowe@parks.ca.gov
Tahoe Donner Association	Ali Kovach	530-587-9424	AKovach@TahoeDonner.com
Town of Truckee	Becky Bucar	530-582-2932	bbucar@townoftruckee.com
Truckee Donner Land Trust	Daniel Joannes	530-582-4711	daniel@tdlandtrust.org
Truckee Donner Public Utility District	Shanna Kuhlemier	530-582-3980	shannakuhlemier@tdpud.org
Truckee Donner Recreation and Parks District	Steve Randall	530-550-4443	steve@tdrpd.org
Truckee Meadows Water Authority	Kara Steeland	775-834-8204	ksteeland@tmwa.com
Truckee Meadows Water Authority	Stefanie Morris	775-834-8080	SMorris@tmwa.com
Truckee Sanitary District	Blake Tresan	530-587-3804	btresan@truckeesan.org
Truckee River Watershed Council	Lisa Wallace	530-550-8760	llwallace@truckeeriverwc.org
Truckee River Watershed Council	Michele Prestowitz	530-550-8760	mprestowitz@truckeeriverwc.org



Appendix 3 2021 State of Donner Lake