



October 19, 2022

Chuck Beatty, Amador County
Brendan Ferry, El Dorado County
Larry Shoemaker, Alpine County

Subject: Mitigation Measure: 4.1 (ae) COA 32

Mitigation Measure:

4.1 (ae) (COA 32): Continue avalanche forecasting and control program as well as provide annual evaluation.

Enclosed please find the Kirkwood Mountain Resort 2020/2021 Avalanche Forecasting and Snow Safety Program for your records.

Please contact me should you need additional information or have any questions.

Thank you,

Adam Ikemire
Senior Manager Ski Patrol
(209) 258-7233
Kirkwood Mountain Resort
AIkemire@vailresorts.com

REPORT
Effectiveness of Kirkwood Mountain Resort's
Avalanche Forecasting and Snow Safety Program
2021-22

Kirkwood Mountain Resort's (KMR) Alpine Snow Safety Plan, Explosive Use/Storage Plan, and 105mm M101A1 Howitzer Procedure Plan are referenced in Section 4 of the Winter Site Operating Plan that was originally developed in 1972 prior to opening the ski area. Each year these sections are reviewed and updated as necessary to reflect any improvements to systems that provide increased safety and efficiency for the snow safety program.

KMR's avalanche mitigation procedures have always focused on the safety of the employees first and foremost. This employee safety then trickles down to all other employees, and finally our guests. All avalanche personnel are equipped with the latest state-of-the-art tools and training, including professional digital transceivers, avalanche rescue equipment, avalanche airbag backpacks, uniforms, and an equipment allowance, increased this season, to help subsidize ski equipment.

We continue to invest in our weather and avalanche forecasting equipment annually to keep our program current. Improvements this year include but are not limited to:

- Significant investment in new avalanche airbag backpacks and 3 antennae digital avalanche transceivers for the highest level of worker safety
- New mount and power upgrades for heated precipitation gauge used to track annual precipitation, Snow Water Equivalent (SWE), and snow density
- Continued daily operational use of InfoEx platform to track weather, avalanche, and occurrence info accurately and in one place
- Improvements and additions to existing weather stations and equipment

All of these improvements ultimately contribute to more accurate forecasting and improved employee and guest safety.

Each season, we seek out the highest level training in the industry, and do our best to send as many employees as possible to these trainings. This season, trainings were very limited due to the COVID-19 pandemic. This year's select employees attended the American Avalanche Institutes Pro 1 courses. We plan to enroll in prior trainings that were unavailable, in the upcoming season.

KMR complies with BATF, Cal/OSHA and USFS rules and regulations for the storage and handling of explosives. All avalanche team route leaders are Cal/OSHA licensed blasters, with at least one trained partner as part of each team. Beyond what is mandated by governing agencies, we continue to train and maintain a high standard in the industry in regard to avalanche control route training and testing.

The mountain is not opened until the avalanche hazard has been mitigated to the greatest extent possible. The snow and weather conditions are continually monitored during the course of the day, and if conditions deteriorate to an unacceptable level, areas of the mountain may close until the hazard is ameliorated. Lift closure ultimately is the final safe practice to protect our employees and guests from wind related and/or avalanche related hazards.

Our operating season this year began on December 3rd and ended on May 1st, which included a three week extension. During the operating season, we recorded 328 inches of snowfall at mid-mountain, and 299 inches at the base of the mountain. The Kirkwood Ski Patrol performed 27 days of active mitigation work during this timeframe. 14 days in December and 13 days throughout the remainder of the season.

Regarding our artillery program, there were eight total Howitzer missions, with a total of 144 rounds fired. One of these missions and six rounds were for training or for target-sighting maintenance. KMR Ski Patrol personnel continue to train in the use of the weapon under the guidelines of the US Army, the USFS, and the Avalanche Artillery Users of North America Committee (AAUNAC). Our howitzer program continues to improve, and

continues to be a valuable tool for safety and infrastructure protection, especially in the worst of storms when access to the upper mountain is non-existent.

The use of KMR Ski Patrol personnel for snow study, avalanche forecasting, and the communication of timing for conducting avalanche mitigation continues to be a strong approach, and we feel is at or above the industry standard. The resort is still capable of acquiring the needed explosives for avalanche mitigation work. The USFS continues to support our efforts towards opening a safe mountain.



October 19, 2022

Chuck Beatty, Amador County
Brendan Ferry, El Dorado County
Larry Shoemaker, Alpine County

Subject: **Parking Analysis – 2021-2022**

Mitigation Measure 4.7 (d)

Kirkwood Mountain Resort will prepare an annual report that includes a detailed analysis of day-visitor parking during peak periods during the such as the Christmas holiday, President Day weekend, and other weekends during the ski season, peak periods during the summer and special events when more than 4,000 day-use visitors are at the resort.

The study will compare day-visitor parking demand during these periods to day-visitor parking capacity at the resort. The results will be reported to TC-TAC in June of each year. If the study shows that the number of day-visitor-related vehicles parked within the resort exceeds the amount of parking spaces available for day visitors (approximately 2,500 spaces), TC-TAC will require KMR to implement a mitigation plan which will include one or more of the following actions:

- *Provide additional parking spaces in surface lots or parking structures.*
- *Implement methods to provide greater efficiency in the use of existing parking lots.*
- *Reduce parking demand through greater utilization of mass transit, increased vehicle occupancy, car/van pools or other program that will result in reduced parking demand during peak periods.*
- *Restrict day-visitor use to a level that allows parking demand to be accommodated in existing day-visitor parking areas.*

Please find the attached table showing the parking analysis of day visitor parking on days we had more than 4,000 skiers during the 2021-2022 winter ski season. There was 9 days cars were turned away due to lack of parking spots during the 2021-22 ski season. Space restrictions can happen for a variety of reasons including, but not limited to, timing of heavy snow, snow storage restrictions and snow removal equipment malfunctions & parking lot efficiencies. Extensive parking planning happens every year to maximize efficiency. Employee and in-valley shuttles, employee carpool incentives, group motor coaches, and social media carpooling pages are regularly utilized to reduce parking demands. Please feel free to contact me if you have additional questions.

Thank you,

Greg Kiskinen
Director of Base Operations
Kirkwood Mountain Resort
Phone: (209) 258-7276
GKiskinen@vailresorts.com

2021-22 Parking Counts on Days with >4000 Skier Visits

Location	12/18/2021	12/19/2021	01/01/2022	01/02/2022	01/08/2022	01/09/2022	01/15/2022	01/16/2022
Red Cliffs Parking Lot	445	457	235	332	420	411	464	452
East Village Parking	75	77	66	76	66	82	77	114
West Village Parking (VIP)	87	109	96	79	99	97	103	96
Village Parking	126	147	132	142	170	125	124	123
KMD + Tennis Courts	436	205	377	468	458	538	194	489
Timber Creek Parking Lots	536	475	511	508	523	546	337	583
Mighty Mountain Parking Lot	84	85	63	76	80	80	83	81
Kirkwood Inn	0	0	0	0	0	0	0	200
Bus	0	1	0	0	0	0	0	0
RV	0		0	0	0	0	1	0
Total	1789	1556	1480	1681	1816	1879	1383	2138

2021-22 Parking Counts on Days with >4000 Skier Visits

Location	01/17/2022	01/23/2022	01/29/2022	01/30/2022	02/05/2022	02/06/2022	02/12/2022	02/13/2022
Red Cliffs Parking Lot	446	481	399	455	483	367	457	438
East Village Parking	116	123	110	117	126	126	77	88
West Village Parking (VIP)	103	114	115	97	112	117	107	92
Village Parking	171	130	138	126	130	152	147	131
KMD + Tennis Courts	257	278	502	299	277	300	198	163
Timber Creek Parking Lots	454	590	664	472	592	494	467	385
Mighty Mountain Parking Lot	81	83	88	90	83	87	85	86
Kirkwood Inn	0	0	0	0	0	0	0	0
Bus	0	2	0	2	2	2	1	1
RV	0	1	3		1			1
Total	1628	1802	2019	1658	1806	1645	1539	1385

2021-22 Parking Counts on Days with >4000 Skier Visits

Location	02/21/2022	02/26/2022	02/27/2022	03/05/2022	03/06/2022	03/19/2022	03/20/2022	
Red Cliffs Parking Lot	435	458	432	423	227	332	317	
East Village Parking	74	104	103	102	104	93	113	
West Village Parking (VIP)	93	107	102	106	106	97	100	
Village Parking	119	142	136	139	144	103	153	
KMD + Tennis Courts	151	589	531	511	582	105	513	
Timber Creek Parking Lots	393	541	603	559	540	315	605	
Mighty Mountain Parking Lot	70	89	91	74	78	60	94	
Kirkwood Inn	0	385		211	189	0	142	
Bus	1	2	1	2	2	0	0	
RV	1	2	2	2	2	0	1	
Total	1337	2419	2001	2129	1974	1105	2038	0



October 19, 2022

Chuck Beatty, Amador County
Brendan Ferry, El Dorado County
Larry Shoemaker, Alpine County

Subject: Mitigation Measure: 4.09 (b) Kirkwood Mountain Resort Snowmaking Noise Management Program

Mitigation Measure:

Kirkwood Mountain Resort will implement the Snowmaking Noise Management Program, which was adopted when the snowmaking project was approved. This incorporates several features, including restrictions on the type of nozzle, shielding of nozzles and acceptable time of operation.

Kirkwood Mountain Resort hereby provides the 2021/2022 Snowmaking Noise Management Program details for your review.

Please contact me should you need additional information or have any questions.

Thank you,

Caroline Miller
Director of Mountain Operations
Kirkwood Mountain Resort
209-258-7232
CMiller8@vailresorts.com

Snowmaking System History:

Kirkwood's snowmaking system was installed in 1996 and began operating in November of 1997. The snowmaking system currently utilizes two pumps in Caples Lake, two booster pumps at the Pump House under Chair 1, two 1600 cfm compressors, six fan guns, and forty-seven air/water guns. In 2016, one SMI Polecat was installed at the bottom of chairs 7 and 9 in the Timber Creek area, the water is supplied through a hydrant by Kirkwood Meadows Public Utility District. One SMI Polecat was installed in 2016 at the bottom of Chair 2/Hay Flat intersection, the water is supplied from the Hay Flat snowmaking line.

Snowmaking air and water pipes were installed underground on Hay Flat on Chair 1, Buckboard on Chair 11, Race Course and Lower Zachary on Chair 5, all of Lift 8 and areas surrounding Red Cliffs Lodge. Snowmaking air and water pipe is located above ground on Upper Zachary's on Chair 6. A total of fifty-six acres of terrain has snowmaking coverage.

In 2021/2022 season, Kirkwood Mountain Resort pumped water from Caples Lake for a total of 265 hours over the course of 28 days in November and December. The 2020/2021 season resulted in 8,815,645 gallons of water used.

Snowmaking System Noise:

Both Alpine and Amador Counties have established a maximum noise standard of 65 dBA Ldn at property lines for residential use. Pursuant to the Alpine County Use Permit allowing snowmaking activities at Kirkwood, within Alpine County, snowmaking is considered a temporary activity. As such, noise levels associated with snowmaking activities are permitted to exceed acceptable noise levels due to the fact that the noise levels would only temporarily exceed noise thresholds. Typically that threshold is 65 dB.

Amador County Planning Department made the finding that snowmaking is a consistent use of the land for a ski resort operation, and therefore, snowmaking activities do not require a use permit.

Therefore, Kirkwood's snowmaking activities are allowed to exceed the noise standards in Table 10.1 and Table 10.2. Snowmaking activities shall comply with all mitigation measures identified in the Snowmaking Final EIR and Addendum (1995 and 1996).

Noise Mitigation Measures:

Kirkwood snowmaking activities operate near dwellings and will expose residents and visitors to noise levels that surpass county standards. This impact is somewhat mitigated by the fact that the winter visitors will expect some noise associated with ski area operations, and the source of the noise is transient in nature.

To help reduce noise levels near buildings/residences Kirkwood Mountain Resort intends to continue utilizing fan guns and HKD tower guns in those locations as those apparatus have the lowest operating noise levels.

Table 10.3 Noise Levels From Different Snowmaking Nozzles

Snowmaking Nozzle	Quantity	Noise Level
Ratnik *	6	84 dBA @ 100'
HKD *	23	65 dBA @ 150'
SMI Fan Guns *	34	60 dBA @ 100'
HKD Klik*	11	79 DBA @ 100'

* Kirkwood utilizes these apparatus

Kirkwood Mountain Resort also tries to aim snowmaking guns away from residences to minimize noise. At times, wind direction can interfere with this process.

Kirkwood Mountain Resort's compressors are set up near the Kirkwood Meadows Public Utility District Powerhouse, far away from visitor and permanent residences.

Noise Monitoring:

During snowmaking activities, Kirkwood Mountain Resort performs noise monitoring at various locations throughout Kirkwood. See the attached spreadsheet for this year's monitoring. We recorded 328 inches of snowfall at mid-mountain, and 299 inches at the base of the mountain in the 2021/2022 operating season. The resort closed to the public on 05/01/2022.

Feedback:

Kirkwood Mountain Resort continues to mitigate issues related to its snowmaking operations and welcomes any input to help achieve this goal.

Suggestions can be sent to:

Michael Niccoli
Senior Manager of Snow Surfaces
Kirkwood Mountain Resort
(209) 258-7325
MNiccoli@vailresorts.com

DATE

November 26, 2021

making snow : Yes

DECIBLES

TIME	LOCATION	GUN LOCATION	DISTANCE 0ft	DISTANCE 100FT
	PUMP HOUSE (tower 3 ch. 1)		60..6	
	Power House & Shanty Town Drive		62..5	
	THE PLAZA (grand staircase bottom)		75..7	
	SNOW CREST (bottom of front stairs)		39..1	
	TC (grand staircase)		49..4	
	RANGER	Ch. 5 Base	106..4	87..3
	T. RANGER			
	FAN GUN	Ch. 11	94..1	83..9
	T. FAN GUN	TC	88..6	68..5
	IMPULSE 20'			
	T. IMPULSE	RC 17	76..2	70..9
	MILLENNIUM			
	T. MILLENNIUM			
	MV8	LZ Vault	105..5	84..4
	RATNIK			
	SNOWLOGIC			
	SV10			
	IMPULSE 30'			

DATE

November 26, 2021

making snow : Yes

DECIBLES

TIME	LOCATION	GUN LOCATION	DISTANCE 0ft	DISTANCE 100FT
	PUMP HOUSE (tower 3 ch. 1)			
	Power House & Shanty Town Drive			
	THE PLAZA (grand staircase bottom)			
	SNOW CREST (bottom of front stairs)			
	TC (grand staircase)			
	RANGER			
	T. RANGER			
	FAN GUN	Ch. 10	98..5	74..7
	T. FAN GUN			
	IMPULSE 20'			
	T. IMPULSE			
	MILLENNIUM			
	T. MILLENNIUM			
	MV8			
	RATNIK			
	SNOWLOGIC			
	SV10			
	IMPULSE 30'			

DATE

December 3, 2021

making snow : Yes

DECIBLES

TIME	LOCATION	GUN LOCATION	DISTANCE 0ft	DISTANCE 100FT
	PUMP HOUSE (tower 3 ch. 1)		55..9	
	Power House & Shanty Town Drive		59..9	
	THE PLAZA (grand staircase bottom)		58..7	
	SNOW CREST (bottom of front stairs)		67..1	
	TC (grand staircase)		48..3	
	RANGER			
	T. RANGER			
	FAN GUN	CH. 5	91..0	69..5
	T. FAN GUN	TC	88..2	67..4
	IMPULSE 20'			
	T. IMPULSE			
	MILLENNIUM			
	T. MILLENNIUM			
	MV8			
	RATNIK			
	SNOWLOGIC			
	SV10			
	IMPULSE 30'			

DATE

December 5, 2021

making snow : Yes

DECIBLES

TIME	LOCATION	GUN LOCATION	DISTANCE 0ft	DISTANCE 100FT
	PUMP HOUSE (tower 3 ch. 1)		60..9	
	Power House & Shanty Town Drive		61..0	
	THE PLAZA (grand staircase bottom)		72..5	
	SNOW CREST (bottom of front stairs)		62..2	
	TC (grand staircase)			
	RANGER			
	T. RANGER			
	FAN GUN	Ch. 11 Uphill	87..2	67..3
	T. FAN GUN			
	IMPULSE 20'			
	T. IMPULSE			
	MILLENNIUM			
	T. MILLENNIUM			
	MV8			
	RATNIK	LZ22	102..7	91..4
	SNOWLOGIC			
	SV10			
	IMPULSE 30'			
	SCOUT	Time Square	93..9	83..6

DATE December 10th, 2021

making snow : Yes

		DECIBLES		
TIME	LOCATION	GUN LOCATION	DISTANCE 0ft	DISTANCE 100FT
1008	PUMP HOUSE (tower 3 ch. 1)		57.1	
1144	Power House & Shanty Town Drive		59.3	
1147	THE PLAZA (grand staircase bottom)		58.5	
1180	SNOW CREST (bottom of front stairs)		69.2	
813	TC (grand staircase)		51.7	
	RANGER			
	T. RANGER			
	FAN GUN			
805	T. FAN GUN	Timber Creek	87.6	66.0
737	IMPULSE	RC #3	96.4	72.7
745	T. IMPULSE	RC # 9	79.4	73.5
738	MILLENNIUM	RC# 4	89.3	74.0
	T. MILLENNIUM			
735	MV8	LZ # 1	96.8	78.6
	RATNIK			
	SNOWLOGIC			
	SV10			
	IMPULSE 30'			



October 19, 2022

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Larry Shoemaker, Alpine County

2021-2022 KIRKWOOD MOUNTAIN RESORT EMPLOYEE HOUSING REPORT

This annual report of employee housing for Kirkwood Mountain Resort is provided to the Tri-County Technical Advisory Committee (TC-TAC), pursuant to the employee housing documentation requirements of the 2003 Specific Plan. The report identifies the number of full-time equivalent (FTE) employees throughout the winter season together with an inventory of employee housing units necessary to satisfy the Specific Plan conditions.

The format for this reporting is consistent with the previous accepted methodology for the allocated and proposed deed restrictions required since the first employee housing requirement was adopted on 1981 and remaining unallocated credits in each of the existing employee housing as developed in coordination with TC-TAC and Amador County Planning following the 2006/2007 audit.

This past season, Kirkwood opened for winter operations on December 4, 2021 and closed on May 1, 2022. The data presented is for that time period.

The attached table shows that an average of approximately 405 FTE's were employed at Kirkwood Mountain Resort during the winter season, including part time employees. The mitigation measure requires the resort to provide housing to 30% of the average FTE. For 2021-22, this equals 121 employees. The average occupancy during the winter season was 146 employees or 52%.

In a typical year, employees are housed in 171 units of employer-owned housing which includes Red Cliffs, Renwick and Pine Lodge in the Kirkwood Valley. Due to the remodel project for Red Cliffs, the property re-opened in early December.

With the growing employee population requiring housing, Kirkwood Mountain Resort has also added three housing locations in the city of South Lake Tahoe known as "Nickelodeon", "The Coyote's Den" and "The Bears Den". At the end of the season "The Bears Den" was returned to owners. To accommodate housing outside the valley we have also provided an employee shuttle to transport employees from South Lake to Kirkwood on a daily basis during the winter season.

Feel free to contact me with any questions or comments.

Thank you,

Katie Huston
Employee Housing Manager
Kirkwood Mountain Resort
Phone: (775) 750-2277
Kathryn.Victor@vailresorts.com

KIRKWOOD MOUNTAIN RESORT 2021-22 WINTER SEASON EMPLOYMENT AND HOUSING

Season Opening Date: December 4, 2021

Season Closing Date: May 1, 2022

Pay Period Ending	Full Time Employees (>30hrs/wk)	Part Time Employees (<30hrs/wk)*	Total Gross Employees	Total FTEs	Employees Housed
12/10/2021	334	118	452	393	107
12/24/2021	425	131	556	491	156
01/07/2022	434	138	572	503	160
01/21/2022	435	136	571	503	160
02/04/2022	446	143	589	518	159
02/18/2022	448	144	592	520	165
03/04/2022	445	149	594	520	168
03/18/2022	383	147	530	457	172
04/01/2022	346	147	493	420	156
04/15/2022	268	59	327	298	151
04/29/2022	216	31	247	232	128
05/13/2022	6	0	6	6	71
			0	0	
			0	0	
Average	349	112	461	405	146

*Note: For the purposes of calculating FTEs, 2 Part-Time Employees equal 1 Full-Time Employee

SUMMARY

Total Employees	461
Total FTEs	405
FTE per Ordinance	121

Property	Beds Available
The Quad	96
Renwick	37
Pine Lodge	38
Bears Den	46
The Den	32
Nickelodeon	32
Total	281



October 19, 2022

Chuck Beatty, Amador County
Brendan Ferry, El Dorado County
Larry Shoemaker, Alpine County

Subject: Mitigation Measure 4.2v (COA 50)

Per our **Mitigation Measures, 4.2 v(COA 50): Conduct street sweeping twice a year**, Kirkwood Mountain Resort is responsible for biannual street sweeping. Street sweeping was conducted June 13-15, 2022 and October 11-12, 2022. Associated pictures and invoices are attached.

Please contact me should you need additional information or have any questions.

Thank you,

Caroline Miller
Director of Mountain Operations
Kirkwood Mountain Resort
(209) 258-7232
CMiller8@vailresorts.com



June 2022



June 2022



October 2022



October 2022



October 19, 2022

Chuck Beatty, Amador County
Brendan Ferry, El Dorado County
Larry Shoemaker, Alpine County

Subject: Mitigation Measure 4.05 (j) (COA 93) Educational Material Regarding Cultural Resources

Mitigation Measures

Educational literature will be developed by Kirkwood Mountain Resort to educate guests about the fragile and irreplaceable nature of cultural resources and the penalties for violation of state and federal laws related to cultural resources.

“The Cultural History of Kirkwood California” is available to the public through the Kirkwood Mountain Resort website; <https://www.kirkwood.com/explore-the-resort/about-the-resort/about-kirkwood.aspx>. A copy of the literature is attached.

Please feel free to contact me if you need any additional information or have any questions.

Thank you,

Kelly Keith
Executive Assistant
Kirkwood Mountain Resort
Phone: (209) 258-8737
KKeith@vailresorts.com

HELP PRESERVE THE PAST

Remember, as you explore the Kirkwood region you are entering a historic area. You may find relics of the past and wonder how they got here.

By leaving these items as you found them, you will leave in place clues that could help us answer these very questions. If you take artifacts home with you, or move them to other spots, you may destroy clues to the past. Every artifact is not merely something to be held and examined, it is also a piece of a puzzle which, when put together with other pieces, allows us to unravel the mysteries of the past.

Please treat all historic and archaeological sites with care and respect when you visit them. The remains of prehistoric and historic cultures are a part of our heritage. When artifacts are stolen and archaeological sites are destroyed, we lose important clues about the past, forever. Strict laws protect artifacts and sites on state and Federal and Native American lands. Report violations to your local law enforcement or land management agency.



Kirkwood Mountain Resort
1-800-967-7500



U.S. Forest Service
Amador Ranger District
(209) 295-4251

THE CULTURAL HISTORY OF KIRKWOOD CALIFORNIA



THE KIRKWOOD INN

Kirkwood Station, as it was originally called, soon became a hostelry, post office and stagecoach depot, which served many travelers through the Sierra in the late 1800's. In 2019, the Kirkwood Inn celebrated its 155th year of friendly western hospitality.



Today the Inn is a popular restaurant and bar located at Kirkwood's entrance on Scenic California State Route 89. The Inn sits on the point where Alpine, Amador and El Dorado counties' boundaries all meet. The Alpine/El Dorado county line actually runs right through the old bar room.



Zachariah S. Kirkwood chose this lush alpine valley for his summer ranching operations and settled here in the late 1850's. In 1861, he began the construction of the log cabin we know today as the Kirkwood Inn.

EARLY KIRKWOOD HISTORY

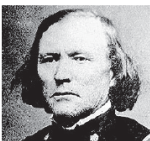
Kirkwood's mountains, valleys, lakes and rivers hold a special place in the history of our country, having afforded many solace, shelter and opportunity through its abundant natural resources and unique location in the Sierra Nevada mountain range.

The original native people of the Kirkwood area are the Washo, a tribe whose history spans nearly 9,000 years. The Washo people created a way of life that utilized seasonal migration and where they could live in harmony with the land.

People moved purposefully to the high mountain lakes and meadows to hunt, fish and collect medicinal plants, roots, and berries for the winter season in the valleys below.



Like the Washo before them, explorers, trappers and the early gold-seeking emigrants of the 1800's would find the barren mountaintops and ridges as the easiest of passable routes through the mountains during the snow months. These high altitude routes were favored for travel because their exposure to the wind would scour away the deep, impassable snow pack.



Christopher Shasta "Kit" Carson

One of the earliest documentations of travel in this area by European descendants can be found in the memoirs of Jedediah Strong Smith who is believed to have passed through this area as early as 1826. Kit Carson also explored near here on his many trapping and scouting trips as early as 1838.

Captain John C. Fremont led his exploration party, which included Kit Carson as a scout, through the Sierra in January and February of 1844 in search of a passable



route to Sutter's Fort in the California gold country. Following an old Native American trade trail, Fremont's party including 67 horses and mules first sighted Lake Tahoe on February 14, 1844 from the top of what is believed to be the nearby 10,067 foot Red Lake Peak.



John C. Fremont

Word of Fremont's successful passage through the Sierra spread, and by the summer of 1846, a battalion of Mormon soldiers attempted the same route in reverse, back to Salt Lake City from Sacramento. The soldiers cleared and charted Captain Fremont's route, making it accessible for their wagons. This trail became heavily traveled during the late 1840s and 1850's, and has had many names including the Carson Emigrant Road, Amador Grade and the Carson Canyon Route. Today this popular route is widely known as the Mormon Emigrant Trail.

The Mormon Emigrant Trail passes through the Kirkwood mountain area, winding up over the saddle just south of

Thimble Peak, following approximately the same route as Kirkwood's Sunrise Chair #4. To this day, rust marks from the iron wagon wheels can be seen on the granite rocks along the route. Some scars on the trees made from the ropes and pulleys used to haul the heavy wagons up over the rugged terrain still remain. The trail continues around Emigrant Lake, located just south of Kirkwood's Iron Horse Chair #3, and then easterly along the south side of Caples Lake and up and over Carson Pass.



Covered Wagon Peak at Kirkwood

Regular mail delivery was established in the 1850's but was stopped during the winter months when deep snow closed the roads. In 1856, a Norwegian emigrant, Jon Torsteinson-Rue, nicknamed "Snowshoe Thompson," took on the mail delivery job.

Snowshoe became legendary as the only communication link over the Sierra during that time. He delivered the mail two to four times a month, for 20 years, and routinely passed through the Kirkwood area until 1876.



Snowshoe Thompson

Snowshoe learned to ski in the Telemark region of Norway, and sking on 10-foot long homemade oak skis, he made the two-day trek to Sacramento and the return three-day trip back to Genoa, Nevada via the Mormon Emigrant Trail.

Soon there became a greater need for a quick mail delivery system, and the Pony Express Company was born in January of 1860. A pony relay system of 120 stations was established across the west. For five weeks the Pony Express trail ran through Kirkwood before it was re-routed over Kingsbury Grade to shorten the distance from Virginia City to Sacramento by 15 miles.

Newer and faster routes connecting emerging cities and towns resulted in fewer travelers taking the old Mormon Emigrant Trail. Over the next 100 years, the Kirkwood area would host mostly shepherders and fishermen, few staying for very long.



Newspaper Advertisement: "Wanted, Young, strong, wary fellows. Not over 18. Must be experienced. Willing to risk death daily. Oysters preferred."

At the heart of it all is the essence of Kirkwood, respect for the environment, pioneering spirit, a sense of adventure, a love for the legends and lore of days gone by—it's colorful past is forever intertwined into its future.



October 19, 2022

Chuck Beatty, Amador County
Brendan Ferry, El Dorado County
Larry Shoemaker, Alpine County

Subject: Mitigation Measure 4.03.1 (h) COA's 56 and 75 Fishing Regulations Poster

Mitigation Measure:

Kirkwood Mountain Resort will assist in educating Kirkwood residents and visitors about fishing regulations at Kirkwood Lake and with permission of the Forest Service, post such regulations at angler access points to the lake.

Kirkwood Mountain Resort (KMR) has posted the regulations at Kirkwood Lake as of June 29, 2022. Regulations are also posted in the Red Cliff's Lodge.

Please contact me should you need additional information or have any questions.

Thank you,

Kelly Keith
Executive Assistant
Kirkwood Mountain Resort
(209) 258-8737
KKeith@vailresorts.com



Fishing at Kirkwood Lake



TYPICAL FISH FOUND AT KIRKWOOD LAKE



Rainbow Trout (*Oncorhynchus mykiss*)

Colors on the back of the fish can range from brown to olive to dark blue. Fish have a pinkish stripe/band running the length of their bodies, with a silvery underside that fades to pearl white. They have small black spots on their backs, fins, and tail.



Brook Trout (*Salvelinus fontinalis*)

The brook trout has a dark green to brown color with a distinctive light marbled pattern across the sides and back extending at least to the dorsal (back) fin and often to the tail. A distinctive sprinkling of red dots surrounded by blue haloes occurs along the sides of the fish. The belly and lower fins are reddish in color, the latter with white leading edges.

CALIFORNIA FISHING LICENSE REQUIRED:

Any person who is 16 years of age or older must have a sport fishing license to take any kind of fish, mollusk, invertebrate, amphibian or crustacean in California, except for persons angling from a public pier in ocean or bay waters.

CALIFORNIA FISHING LICENSE MAY BE PURCHASED AT:

wildlife.ca.gov/licensing/online-sales

FREE FISHING DAYS!

Every year the California Department of Fish & Wildlife (CDFW) announces two Free Fishing Days. On these days, anyone ages 16 or older can go fishing without getting a sport fishing license. All other regulations apply.

GENERAL FISHING METHODS

All fish must be taken only by angling with one closely attended rod and line or one hand line with not more than three hooks nor more than three artificial lures (each lure may have three hooks attached). Anglers in possession of a valid two rod stamp and are under 16 years of age may use up to two rods in lakes and reservoirs.

BAIT FISH USE IN THE SIERRA REGION

Live or dead fin fish shall not be used or possessed for use as bait in the Sierra Region.

CATCH LIMIT

5 per day - 10 in possession plus up to 10 additional Brook Trout per day less than 10" total length may be taken and possessed in addition to the other daily bag and possession.

HOW TO RELEASE FISH UNHARMED

1. Land your fish as carefully and as quickly as possible.
2. Try to avoid removing the fish from the water. Underwater unhooking and release is preferred.
3. Do not squeeze the fish, or touch it's eyes or gills.
4. Remove only those hooks you can see and remove easily, otherwise clip the line near the mouth on deeply hooked fish.
5. Use artificial lures (no bait) to minimize deep hooking. Barbless hooks or hooks with flattened barbs make unhooking easier and less stressful on the fish.

USE PROPER FISH CLEANING METHODS

Prevent Water Pollution. Do not clean fish in the lakes and streams. Clean fish well away from lakes and streams. Do not throw entrails into the water or leave on shore. Fish heads, tails, and entrails need to be disposed of properly to avoid attracting insects and bears. Do not clean fish at water faucets in campground. Water faucets may be used only for filling containers for camp- site use.

HELP WILDLIFE OFFICERS PUT AN END TO POACHING

Report Poachers and Polluters to CALTIP at 888-334 -2258 or 911. Text 847411 begin message with "CalTip" followed by details.



October 19, 2022

Chuck Beatty, Amador County
Brendan Ferry, El Dorado County
Larry Shoemaker, Alpine County

Subject: Mitigation Measure: 4.12 (c) COA's 140 and 169

Mitigation Measure:

4.12 c (COA 140 Amador County and 169 Alpine County): Kirkwood Mountain Resort will work with the Forest Service to develop and implement an instructional/interpretive program to inform Kirkwood visitors about sensitive resource issues at Kirkwood Lake.

Kirkwood Mountain Resort (KMR) has posted the sensitive resource poster at Kirkwood Lake along with the fishing regulation poster.

Please contact me should you need additional information or have any questions.

Thank you,

Kelly Keith
Executive Assistant
Kirkwood Mountain Resort
Phone: (209) 258-8737
KKeith@vailresorts.com

HELP US PROTECT AND PRESERVE OUR HIGH SIERRA LAKES

“When we try to pick out anything by itself we find that it is bound fast by a thousand invisible cords that cannot be broken, to everything in the universe.”

John Muir



Riparian Ecosystem

When water quality is impacted, the fragile ecology is disturbed.

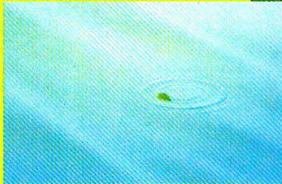
~ As the shoreline erosion progresses, it degrades aquatic habitat.

~ Impacted lake bottoms can kill aquatic vegetation.

~ Your presence, and that of domestic animals too near the lakes, may prevent wildlife from obtaining water.

~ Alpine lakes are important to visitors for their beauty, wildlife, wildflower displays, and drinking water.

~ The lakes support the micro climate providing nourishment for native land and aquatic species.



Water Quality

Human and domestic animal waste too close to water sources does not allow for the filtering of contaminants before reaching water sources. Salt in urine attracts wildlife that in turn, causes defoliation of plants.

~ Deposit human waste in 6 to 8-inch cat holes at least 200 feet from water sources.

~ Carry your cleaning water to wash yourself and dishes at least 200 feet from water sources, using small amounts of bio-degradable soap.

~ “Pack it in; pack it out.”



Protection of Shoreline

Campsites too close to water sources lead to erosion of shoreline vegetation.

This loss changes the Wilderness character.

~ Least impacting campsites are found, not made, at least 100 feet from water resources.

~ Keep campsites small to lessen impact.

~ Wilderness is impacted by moving rocks, plants or other natural objects, or by building a structure.

~ Leave your campsites cleaner than you find them.

It is our responsibility and requires our personal commitment to protect the delicate ecological balance of the alpine jewels of the Sierra



The USFS and Kirkwood Mountain Resort have partnered to raise awareness of the sensitive resources in high Sierra lakes such as Kirkwood Lake

