
Carson Water Subconservancy District

Carson River Water Marketing

June 27, 2021

Prepared For:

Carson Water Subconservancy District
777 E. William St. Suite 110A
Carson City, NV 89701

Prepared By:



308 N. Curry Street, Suite 200
Carson City, NV 89703
775 / 883-7077

Table of Contents

List of Figures.....	iii
List of Tables.....	iv
Certification.....	1
Authorization.....	2
Abbreviations.....	3
Definitions.....	4
1.0 Introduction.....	5
1.1 Water Marketing Report Background.....	5
1.2 Carson River Watershed Background.....	5
2.0 Carson River Background.....	8
2.1 Watershed Management.....	8
2.2 Surface Water Rights.....	9
2.3 Groundwater Management.....	9
2.4 Historical Instream Flows.....	10
2.5 Water Storage.....	17
2.5.1 Existing Water Storage.....	17
2.5.2 Historically Proposed Water Storage Projects.....	18
3.0 Water Use.....	22
3.1 Groundwater Basin Usage.....	22
3.2 Municipal Water Usage.....	25
3.2.1 Current Use.....	25
3.2.2 Estimated Future Municipal Water Usage.....	28
3.3 Agricultural Usage.....	30
4.0 Climatic Conditions.....	32
5.0 Water Marketing Strategies.....	34
5.1 Current Institutional and Water Marketing Practices.....	34
5.2 Future Water Marketing Concepts.....	37
5.2.1 Surface Water Extraction.....	37
5.2.2 Water Conveyance.....	38
5.2.3 Water Storage.....	39
5.2.4 Water Banking.....	40
6.0 Conceptual Alternatives.....	42
6.1 Conceptual Alternative 1 – Managed Aquifer Recharge Site 1.....	42
6.2 Conceptual Alternative 2 – Managed Aquifer Recharge Site 2.....	43
6.3 Conceptual Alternative 3 – Expanding Existing Reservoir Storage.....	44
6.4 Conceptual Alternative 4 – Regional Potable Water Managed Aquifer Recharge.....	46

6.5	Conceptual Alternative 5 – Combined Flood Control and Groundwater Recharge	47
6.6	Conceptual Alternative 6 – New Reservoir Storage.....	48
6.7	Alternative Summary Table.....	49
6.8	Alternative Water Rights.....	50
6.9	Opinion of Probable Cost.....	51
7.0	Conclusions	60
	References	62
Appendix A	Carson River Surface Water Rights.....	65
Appendix B	Carson River Named Tributaries – Sorted Alphabetically	110
Appendix C	Carson River Named Tributaries – Sorted by Length.....	112
Appendix D	Regulated Water Systems above Lahontan Reservoir	114
Appendix E	River Segment Water Rights.....	116

List of Figures

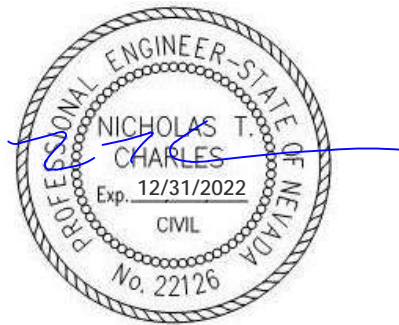
Figure 1.1 – Carson Watershed Area Map.....	6
Figure 1.2 – Carson Watershed Shaded Relief	7
Figure 2.1 – West Fork at Woodfords Historical Data (USGS #10310000)	11
Figure 2.2 – East Fork near Gardnerville Historical Data (USGS # 1039000)	11
Figure 2.3 – Carson River near Carson City Historical Data (USGS #10311000)	12
Figure 2.4 – Carson River near Fort Churchill Historical Data (USGS # 10312000).....	12
Figure 2.5 – West Fork at Woodfords 10-Year Running Average (USGS #10310000)	14
Figure 2.6 – East Fork near Gardnerville 10-Year Running Average (USGS # 1039000)	14
Figure 2.7 – Carson River near Carson City 10-Year Running Average (USGS #10311000)	15
Figure 2.8 – Carson River near Fort Churchill 10-Year Running Average (USGS # 10312000)...	15
Figure 2.9 – Alpine Decree River Segments	20
Figure 2.10 – Hydrographic Basins.....	21
Figure 3.1 – Groundwater Usage by Hydrographic Basin.....	24
Figure 3.2 – Water Usage Comparison in AFA.....	27
Figure 3.3 – 2015 to 2019 Douglas County Monthly Water Usage.....	27
Figure 3.4 – Estimated Water Usage by Water System	30
Figure 3.5 – Carson River Watershed Landcover	31
Figure 4.1 – Carson City Climatic Summary, 1940 to 2019	32
Figure 6.1 – Historical Lahontan Reservoir Storage	46
Figure 6.2 – Alternative 1: Managed Aquifer Recharge Site 1	53
Figure 6.3 – Alternative 2: Managed Aquifer Recharge Site 2	54
Figure 6.4 – Alternative 3: Expanding Existing Reservoirs – Mud Lake	55
Figure 6.5 – Alternative 3: Expanding Existing Reservoirs – Lahontan Reservoir	56
Figure 6.6 – Alternative 4: Potable Water Managed Aquifer Recharge	57
Figure 6.7 – Alternative 5: Combined Flood Control and Groundwater Recharge.....	58
Figure 6.8 – Alternative 6: Offstream Reservoir Storage	59

List of Tables

Table 1.1 – Carson Watershed Facts.....	5
Table 2.1 – Alpine Decree River Segments (Wathen, Larrouy, & Callahan, 2012).....	8
Table 2.2 – Alpine Decree Duty and Consumptive Use (Nevada Division of Water Planning, 1999; Wathen, Larrouy, & Callahan, 2012).....	9
Table 2.3 – Carson Watershed Groundwater Basins	9
Table 2.4 – Historical Flow Data and Statistics.....	10
Table 2.5 – Trends in Instream Flow – Time Period Analysis.....	13
Table 2.6 – Trends in Instream Flow – Regression Analysis	16
Table 2.7 – Carson River Reservoirs above Lahontan (Wathen, Larrouy, & Callahan, 2012).....	17
Table 3.1 – Nevada Groundwater Usage by Hydrographic Basin (Nevada Division of Water Resources, 2020).....	23
Table 3.2 – Groundwater Water Rights by Hydrographic Basin as a Percent of Basin Perennial Yield	25
Table 3.3 – Water Usage Data from Select Community Water Systems.....	26
Table 3.4 – Water Usage and Connection Estimates.....	29
Table 4.1 – Carson City Climatic Summary, 1940 to 2019	32
Table 6.1 – Summary of the presented conceptual alternatives.....	49
Table 6.2 – Alternative Water Rights Summary	50
Table 6.3 – Opinion of Probable Cost.....	52

Certification

The technical material and data contained in the document were prepared under the supervision and direction of the undersigned professional engineer. The opinions contained in this document reflect Lumos & Associates professional judgment in context with the scope of work and contract. The presented opinions are based on the conditions, information, and data provided to Lumos & Associates at the time the document was published and may be subject to change based on changing conditions, information, and data. Lumos & Associates did not verify independent information, conditions, and opinions supplied by others. There is no written or implied warranty or guarantee for any damages that occur from third party use of this document.



06/27/2021

Prepared under the Responsible
Charge of Nicholas Charles, PE

Authorization

On June 19, 2019, the Carson Water Subconservancy District approved a contract with Lumos & Associates to complete a Water Marketing Study. The project is being funded through a US Bureau of Reclamation Water Marketing Strategy Grant. The contract scope of work is summarized as follows:

- Task 1.1 Project Management and Administration
- Task 1.2 Communication and Outreach
- Task 1.3 Evaluate Existing Water Supply by River Segment
- Task 1.4 Identify and Rank Storage and Infrastructure Needs and Opportunities
- Task 1.5 Water Marketing Analysis
- Task 1.6 Water Market Report

Abbreviations

AF	acre foot
AFA	acre foot annually
AF/AC	acre foot per acre
ASR	aquifer storage and recovery
CFR	Code of Federal Regulation
CFS	cubic feet per second
CWSD	Carson Water Subconservancy District
DCLTSA	Douglas County Lake Tahoe Sewer Authority
GPM	gallons per minute
GWUDI	groundwater under the direct impact of surface water
IHGID	Indian Hills General Utility District
IVGID	Incline Village General Improvement District
LCUD	Lyon County Utility District
MAR	managed aquifer recharge
MG	million gallons
MGD	million gallons per day
MGSD	Minden-Gardnerville Sanitation District
MLWS	Marlette Lake Water System
MPUD	Markleeville Public Utility District
NAC	Nevada Administrative Code
NRS	Nevada Revised Statute
PPB	part per billion
RIB	rapid infiltration basin
STPUD	South Tahoe Public Utility District
TCID	Truckee-Carson Irrigation District
USGS	US Geological Survey
WTP	water treatment plant
WWTP	wastewater treatment plant
σ	standard deviation

Definitions

Community Water System (CWS) – “a system that supplies water to the same population year-round” (US Environmental Protection Agency, 2017).

Conjunctive Management – jointly managing ground and surface waters together rather than exclusively.

Groundwater Under the Direct Impact of Surface Water (GWUDI) – According to 40 CFR §141.2 GWUDI is *any water beneath the surface of the ground with significant occurrence of insects or other macroorganisms, algae, or large-diameter pathogens such as Giardia lamblia or Cryptosporidium, or significant and relatively rapid shifts in water characteristics such as turbidity, temperature, conductivity, or pH which closely correlate to climatological or surface water conditions.*

Non Community Water System (NC) – A water system that “provides water in a place such as a gas station or campground where people do not remain for long periods of time” (US Environmental Protection Agency, 2017). These systems are also known as Transient Non-Community systems (TNC).

Non-Transient Non-Community System (NTNC) – A system that “regularly supplies water to at least 25 of the same people at least six months per year” (US Environmental Protection Agency, 2017).

Perennial Yield – “the maximum amount of groundwater that can be salvaged each year over the long term without depleting the groundwater reservoir” (King, 2018)

Riparian water right – the right to use natural flow on riparian land, or in other words the right to use the natural flow of water on land that touches a surface water. Riparian rights can only be used on land that drains back to the river, lake, or stream the water came from and only apply to naturally occurring flows (California Water Boards, 2019).

Standard Deviation – represents the deviation from the mean (or average) of a dataset. A larger standard deviation indicates that the datapoints in the dataset are more widely dispersed from the mean. A smaller standard deviation indicates the datapoints are closer to the mean.

1.0 INTRODUCTION

1.1 Water Marketing Report Background

The purpose of this report is to formally document the varied efforts, evaluations, concepts, and outreach to develop a water marketing exchange and transfer strategy for the Carson River watershed. This report generally covers two very broad topics. The first topic addresses Carson River watershed history, regulatory oversight, data, and trends. These topics are covered in Chapters 2.0 through 4.0. The second topic covers existing water marketing opportunities and future water marketing strategies. These topics are covered in Chapters 5.0 through 6.0. Future water marketing strategy(ies) will consider water supply instability, water supply shortages, legal and physical restraints, and potential water storage concepts.

1.2 Carson River Watershed Background

The Carson River originates in the Eastern Sierra Mountains of California and terminates in the Carson Sink in the Nevada desert. Although numerous streams and creeks come together to form the Carson River, the main tributaries are the East Fork and the West Fork of the Carson River. Elevations range from 11,460-feet at Sonora Peak near the headwaters of the East Fork to 3,850-feet in the Carson Sink, nearly 200 miles downstream. The Carson River allows communities to thrive in the desert. Waters that begin as High Sierra snowpack are utilized for potable consumption (through surface water treatment and groundwater recharge), agricultural uses, and recreation. The river also provides for a variety of flora and fauna that changes as the river descends the Sierra Mountains to the Nevada desert. The Carson watershed is bordered by the Truckee River watershed on the west and north and the Walker River watershed to the south. Table 1.1 summarizes some key features of the Carson Watershed and Figure 1.1 and Figure 1.2 highlight the location and topography of the watershed.

Table 1.1 – Carson Watershed Facts

Watershed Area	3,962.9 miles ²
Carson River Length	131.1 miles
East Fork Carson River Length	68.0 miles
West Fork Carson River Length	39.6 miles
Named Creeks, Rivers, canals, etc. in Watershed	186
Total Length of named Creeks, Rivers, Canals, etc. in Watershed	1,043.8 miles



Carson City Subconservancy District
Carson Watershed Area Map

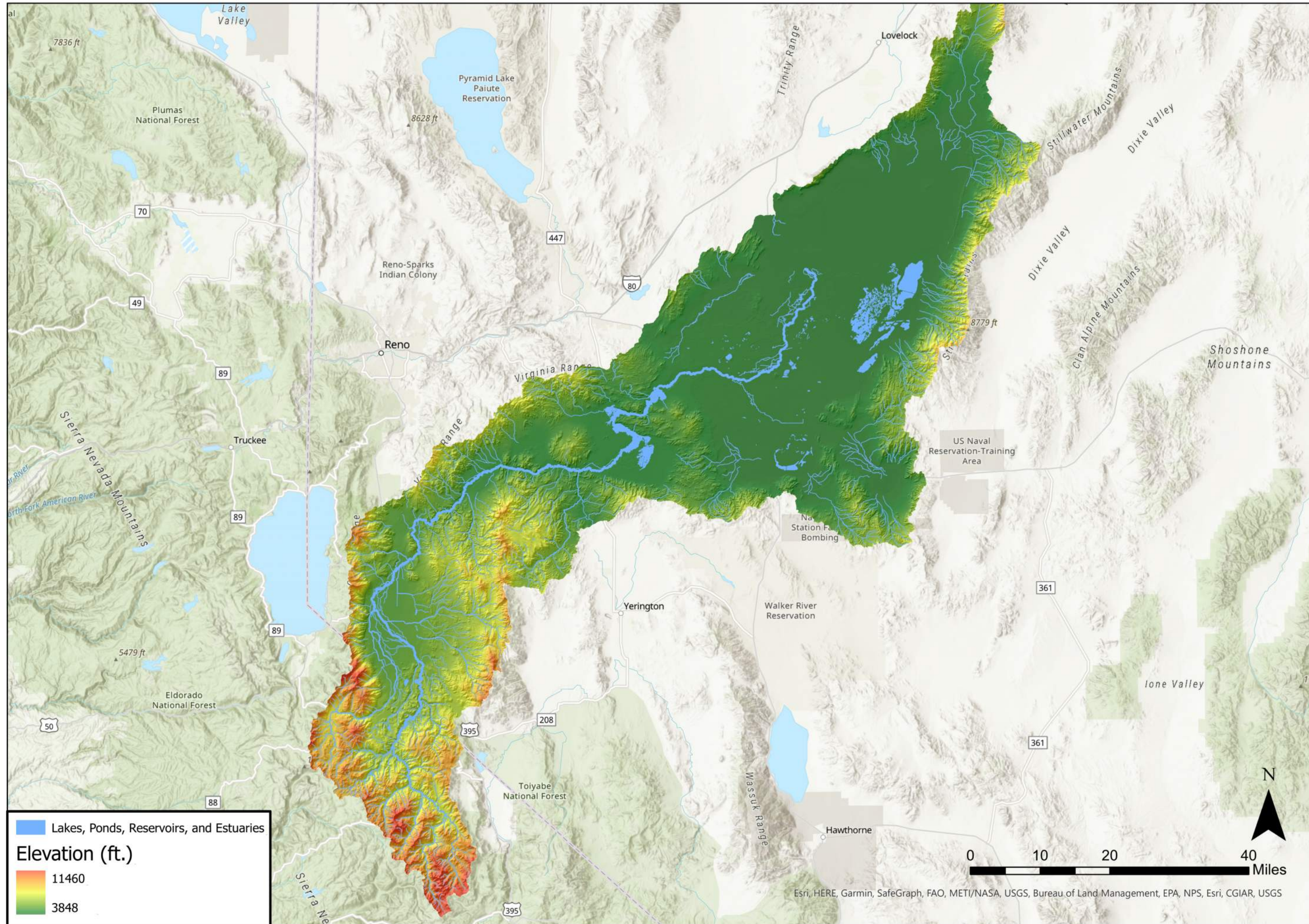
REV DATE	DESCRIPTION	BY

BAR IS 1 INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

FIG. 1.1

DRAWN BY: DRB
DESIGNED BY: NTC
CHECKED BY: NTC
JOB NO.: 9834.000
SHEETS:

Map: HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, Earthstar Geographics



■ Lakes, Ponds, Reservoirs, and Estuaries
Elevation (ft.)
■ 11460
■ 3848

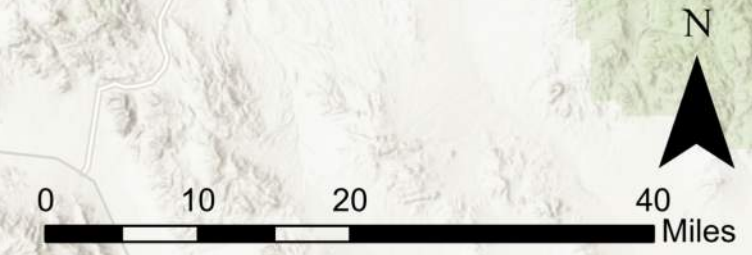
LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.

Carson Water Subconservancy District
Carson Watershed Shaded Relief

REV DATE	DESCRIPTION	BY

BAR IS 1 INCH ON ORIGINAL DRAWING
 0" 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

FIG. 1.2
 DRAWN BY: DRB
 DESIGNED BY: NTC
 CHECKED BY: NTC
 JOB NO.: 9834.000
 SHEETS:



2.0 CARSON RIVER BACKGROUND

The Carson River and surrounding areas have a rich, but at times volatile water history. Over the years there have been significant legal issues surrounding the use of water from the Carson River. The purpose of the following sections is to provide a brief summary of historical instream flows and the various rules and decrees that have tried to manage these flows.

2.1 Watershed Management

Surface water use along the Carson River is governed by the Alpine Decree. In 1925, the US Department of the Interior initiated the decree through *United States of America vs. Alpine Land and Reservoir Company, et al.* Fifty-five years later, in October 1980, the “Alpine” decree was finalized. The decree establishes surface water rights in both California and Nevada, establishes the right to reservoir storage, and defines the operation of the river on rotation. In addition, the decree recognizes riparian rights in California and appropriative rights in Nevada (Nevada Division of Water Planning, 1999).

The Alpine Decree established eight (8) autonomous river segments, with segment 7 being subdivided into five (5) sub segments (see Table 2.1 and Figure 2.9). It also establishes consumptive use and duties for bottom, alluvial, and bench lands (see Table 2.2). However, the Decree does not define these lands (Nevada Division of Water Planning, 1999). The following summarizes the water distribution according to the Alpine Decree and Federal Water Master (Wathen, Larrouy, & Callahan, 2012):

1. Segment 1 – This segment consists of mostly riparian water rights and minimal regulation.
2. Segment 2 – This segment of river is regulated when flow at the Gardnerville gauge drops to 200 cfs. One-third of flows are diverted to the Allerman Canal and 2/3rds of flows remain in the river channel. Water is distributed based on priority.
3. Segment 3 – This segment consists of mostly riparian water rights and minimal regulation.
4. Segment 4 – Regulation of this segment is based on the *Anderson-Bassman Decree* and the *Price Decree*.
 - a. Anderson-Bassman Decree determines that the first Monday in June or when flows reach 100 cfs, water in the West Fork will be rotated between Segment 4 and Segment 5.
 - b. Price Decree controls rotation in segment 4.
5. Segment 5 – Water deliveries are based on priority. During weeks when California users receive water, any water that reaches Nevada is delivered to junior water rights.
6. Segment 6 – Diversions are by pumping. Water that reaches pumps meets the priority of the water right.
7. Segment 7 – This segment is regulated based on sub-segments a through e.
8. Segment 8 – This segment is not regulated by the Federal Water Master

Table 2.1 – Alpine Decree River Segments (Wathen, Larrouy, & Callahan, 2012)

Segment	River	Upper Boundary	Lower Boundary
1	East Fork	Headwater	CA/NV Stateline
2	East Fork	CA/NV Stateline	Confluence of East & West Forks
3	West Fork	Headwaters	USGS gauge at Woodfords
4	West Fork	USGS gauge at Woodfords	CA/NV Stateline
5	West Fork	CA/NV Stateline	Confluence of East & West Forks
6	Main	Confluence of East & West Forks	USGS gauge at Carson City

Segment	River	Upper Boundary	Lower Boundary
7	Main	USGS gauge at Carson City	Lahontan Reservoir
7(a)	Mexican Ditch and reach between Rose Ditch and Cardelli Ditch		
7(b)	Gee Ditch		
7(c)	Koch Ditch		
7(d)	Houghman and Howard Ditches		
7(e)	Buckland Ditch		
8	Main	Lahontan Reservoir	No lower boundary

Table 2.2 – Alpine Decree Duty and Consumptive Use (Nevada Division of Water Planning, 1999; Wathen, Larrouy, & Callahan, 2012)

	Newlands Project		Above Newlands Project	
	Duty	Consumptive Use	Duty ¹	Consumptive Use
Bottom Lands	3.5 AF/AC	2.99 AF/AC	4.5 AF/AC	2.5 AF/AC
Alluvial Fan Lands	NA	NA	6.0 AF/AC	2.5 AF/AC
Bench Lands	4.5 AF/AC	2.99 AF/AC	9.0 AF/AC	2.5 AF/AC

2.2 Surface Water Rights

As part of this project, an extensive summary of surface water rights in the Carson River watershed has been compiled. Over 2,000 surface water rights have been identified with associated data, including owner, priority, duty, point of diversion, and source (see Appendix A). This dataset shows Nevada water rights dating back to 1849 to as recently as 2018.

2.3 Groundwater Management

There are seven defined groundwater basins in the Carson River watershed (see Table 2.3 and Figure 2.10). Six different groundwater basins are located in Nevada and one in California (Nevada Division of Water Resources, 2017; California Department of Water Resources, 2016). Although the Carson Valley Basin is intersected by the Nevada – California state line, it is physically the same hydrographic basin.

Table 2.3 – Carson Watershed Groundwater Basins

Groundwater Basin #	Groundwater Basin Name
CA 6-006	Carson Valley
NV105	Carson Valley
NV 104	Eagle Valley
NV 103	Dayton Valley
NV 102	Churchill Valley
NV 101A	Packard Valley
NV 101	Carson Desert

¹ In a 1980 Court Opinion regarding the upper watershed, the Court indicated that inadequate evidence existed to classify the three land types referenced in the Alpine Decree. The opinion then states that “the Water Master will exercise discretion in distributing water to meet the various demands of the various land types hereinabove noted, insofar as it is practical to do so” (The United States of America Vs. Alpine Land & Reservoir Company, a corporation, et al., 1980, pp. 27-28).

2.4 Historical Instream Flows

Annual average and peak day instream flow data was obtained from the USGS National Water Information System (US Geological Survey, 2020). The USGS has historically maintained numerous gauges along the Carson River, with numerous gauge locations no longer in service. Table 2.4 provides gauge details, historical data, and statistical analysis of four longstanding gauges located along the East Fork, West Fork, and main fork of the Carson River based on annual data².

Table 2.4 – Historical Flow Data and Statistics

	West Fork at Woodfords	East Fork near Gardnerville	Carson River near Carson City	Carson River near Fort Churchill
USGS Station #	10310000	10309000	10311000	10312000
Latitude	38.7697	38.8452	39.1078	39.2917
Longitude	-119.8328	-119.7061	-119.7122	-119.3111
Data Record Analyzed	1940 to 2019	1940 to 2019	1940 to 2019	1940 to 2019
Annual Average Flow, CFS	103.5	367.5	403.9	380.1
Annual Median Flow, CFS	94.2	341.0	342.7	320.2
Max Annual Average Flow, CFS	264.3	1,040.0	1,292.0	1,270.0
	2017	2017	2017	2017
Minimum Annual Average Flow, CFS	26.1	91.6	58.5	36.3
	1977	1977	1977	1977
Annual Flow Standard Deviation, CFS	49.8	181.2	255.9	257.8
Average Peak Day Flow, CFS	1,170.6	3,597.7	4,175.0	3,284.7
Median Peak Day Flow, CFS	818.5	2,430.0	2,210.0	2,020.0
Maximum Peak Day Flow, CFS	8,100.0	20,300.0	30,500.0	22,300.0
	1/1/1997	1/3/1997	1/3/1997	1/3/1997
Minimum Peak Day Flow, CFS	170.0	626.0	385.0	230.0
	5/13/1988	5/16/1988	5/16/1988	6/11/1977
Peak Day Flow Standard Deviation, CFS	1,250.7	3,556.6	5,509.3	3,677.7
Annual Average to Peak Day Average Multiplier	11.3	9.8	10.3	8.6

Figure 2.1 through Figure 2.4 show annual average and peak day instream flows at each of the gauge stations listed in Table 2.4. For each gauge location, average annual flows can vary significantly from year to year. The “average” flow does not consistently occur, it is arguably just the average of extreme high and low flows that occur from year to year. Or in other words, it is just a statistical average. Visually, these charts show an increasing frequency of higher flow rates after 1980.

² Due to inconsistent data in the early 1900’s, each dataset was reduced to the years 1940 to 2019.

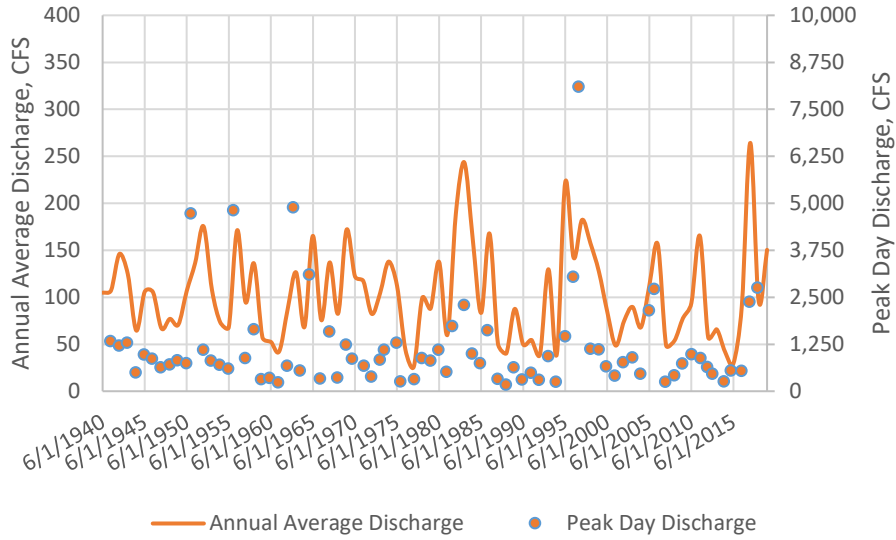


Figure 2.1 – West Fork at Woodfords Historical Data (USGS #10310000)

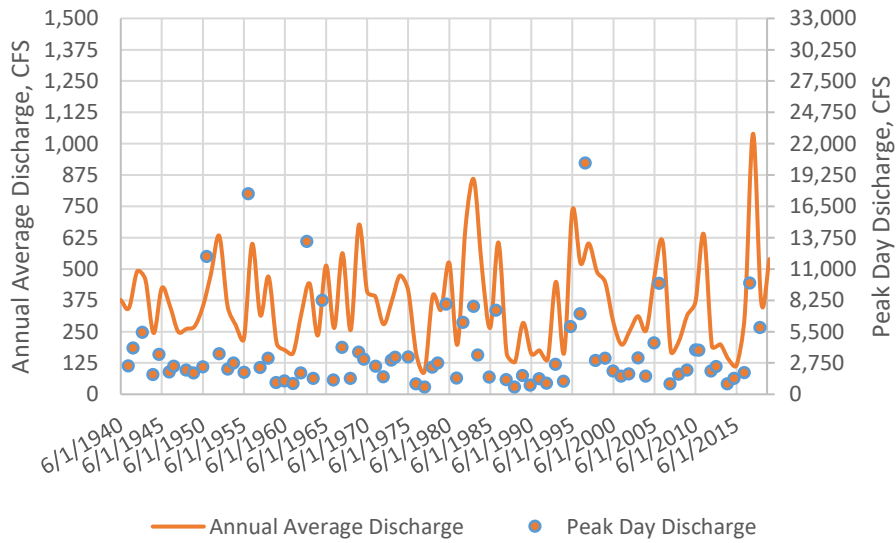


Figure 2.2 – East Fork near Gardnerville Historical Data (USGS # 1039000)

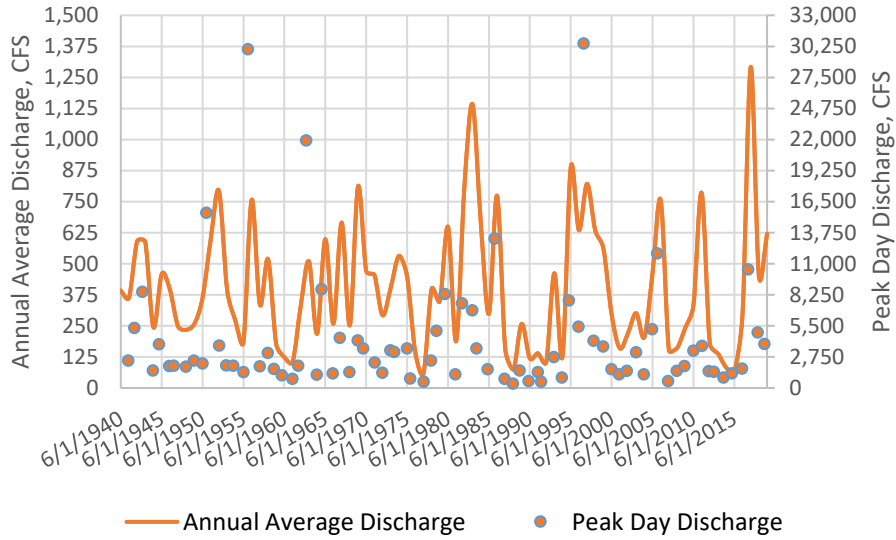


Figure 2.3 – Carson River near Carson City Historical Data (USGS #10311000)

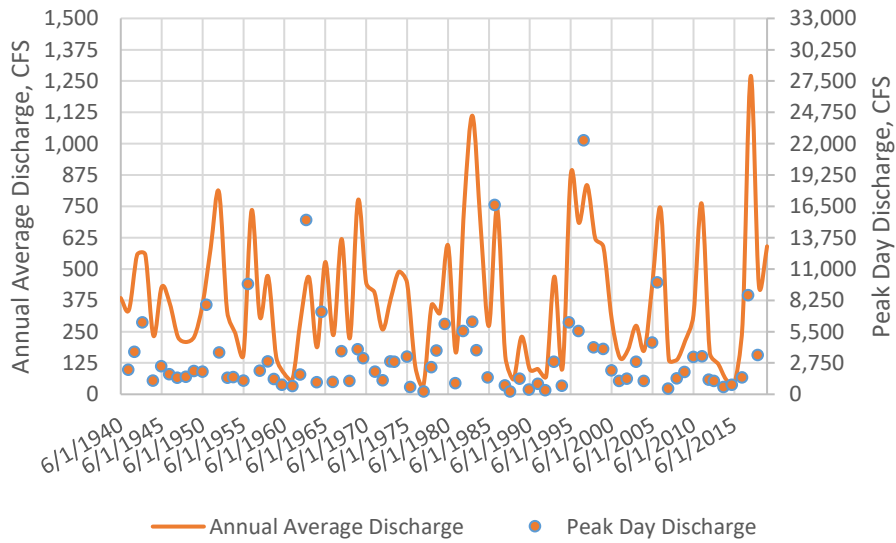


Figure 2.4 – Carson River near Fort Churchill Historical Data (USGS # 10312000)

Table 2.5 captures the increased frequency of extreme high and low flows in the Carson River. This Table summarizes the number of years between 1940 and 1979 and 1980 to 2019 that exceed the 90th percentile flow and the number of years that flows did not exceed the 10th percentile flow. Flows above the 90th or below the 10th percentile were considered extreme flow years. Categorizing the data from 1940 to 1979 and 1980 to 2019 breaks the data up into two, equal 39-year time periods. The data indicates that years with extreme high or low annual average flows have over doubled since 1979.

Table 2.5 – Trends in Instream Flow – Time Period Analysis

	West Fork at Woodfords	East Fork near Gardnerville	Carson River near Carson City	Carson River near Fort Churchill
90 th Percentile Flow (CFS)	167	600	732	710
Number of Years Annual Average Flow Exceeded 90 th Percentile Flow				
1940 to 1979	3	3	3	3
1980 to 2019	6	8	8	8
% Increase in Extreme High Flow	100%	167%	167%	167%
10 th Percentile Flow (CFS)	40	135	76	50
Number of Years Annual Average Flow was Less Than 10 th Percentile Flow				
1940 to 1979	1	1	1	1
1980 to 2019	3	2	2	1
% Increase in Extreme Low Flow	200%	100%	100%	0%

As previously discussed, instream flow data indicates that flow trends have been changing. To evaluate these changes, linear regression models were developed for each gauge. Regression models developed for the annual data shown in Figure 2.1 through Figure 2.4 showed no statistical significance³; however, as previously noted, instream flows are highly variable (see the standard deviation in Table 2.4) and becoming more variable (see Table 2.5). It is believed that this high level of annual variability impacts the ability to develop statistical trends. To develop statistical significance, the 10-year running average was calculated for each gauge using monthly flows. The 10-year running average is simply the average of the previous 10-years from a given date. The 10-year running average calculation helps average out extreme highs and lows and provides better insight into climatic trends in the dataset. Figure 2.5 to Figure 2.8 shows the 10-year running average flow and 10-year running average sample standard deviation for the gauges listed in Table 2.4 from 1940 to 2019. Each figure includes a trendline and associated regression equation through the 10-year running average calculation. The trend line for each gauge shows a trend of decreasing flows at each gauge location. Regression statistics indicate that the negative trend is statistically significant at the West Fork, East Fork, and Carson City gauges (P value of 0.00 to 0.01) but is less significant at the Fort Churchill gauge (P value of 0.11).

³ P-values for the slope in the regression analysis ranged from 0.86 to 0.99. Assuming an alpha value (significance level) of 0.05, the regression models did not indicate a statistical change in flow based on the annual average flow dataset.

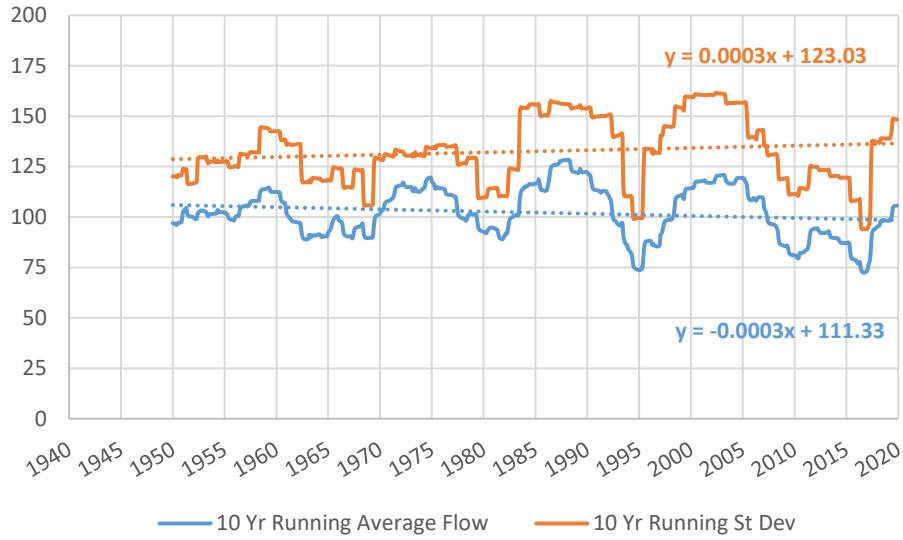


Figure 2.5 – West Fork at Woodfords 10-Year Running Average (USGS #10310000)

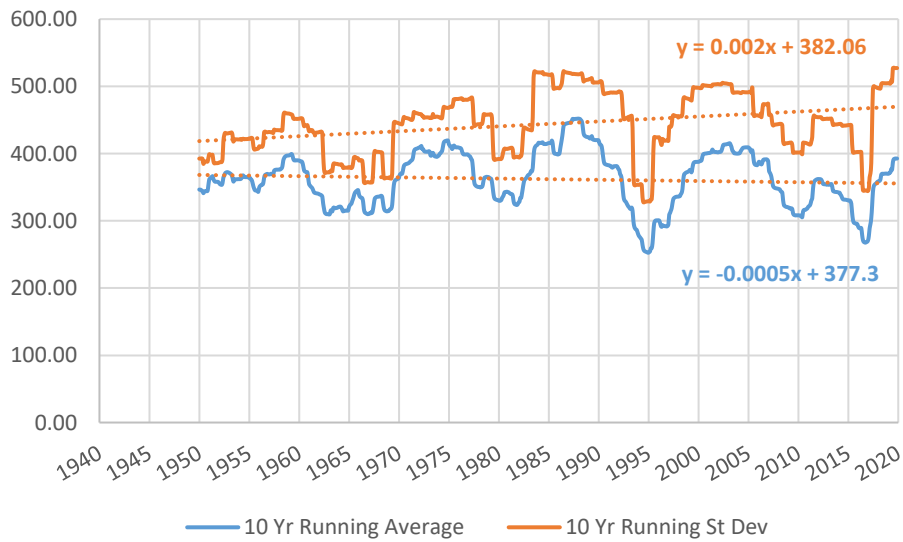


Figure 2.6 – East Fork near Gardnerville 10-Year Running Average (USGS # 1039000)

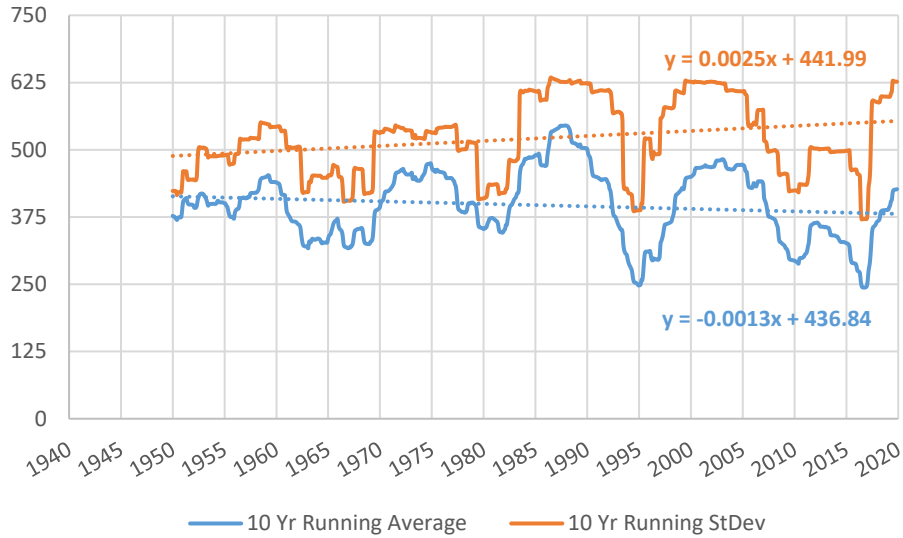


Figure 2.7 – Carson River near Carson City 10-Year Running Average (USGS #10311000)

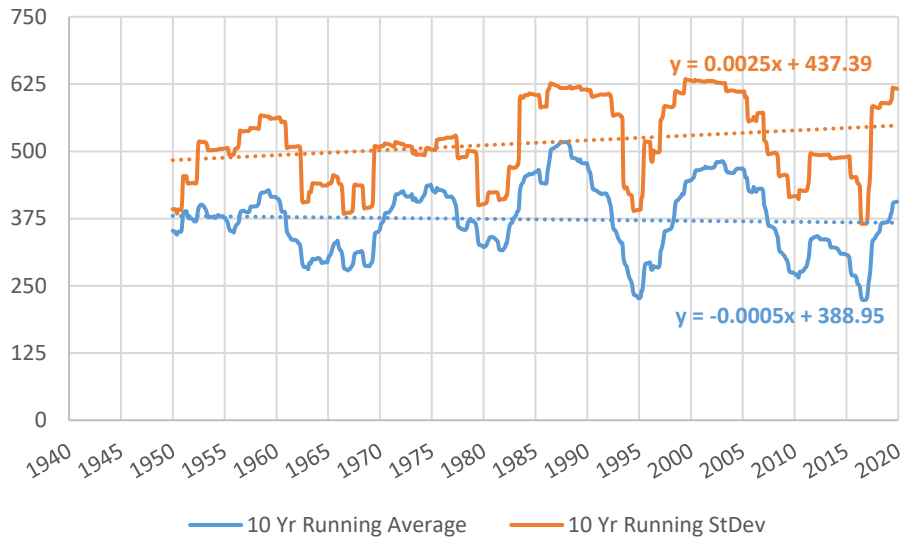


Figure 2.8 – Carson River near Fort Churchill 10-Year Running Average (USGS #10312000)

Using the regression equation for each trendline⁴, Table 2.6 provides estimates of the annual average decrease in flow and the cumulative decrease in flow from 1940 to 2019. It should be noted that these decreases in flow are long-term climatic trends and do not indicate conditions

⁴ The slope of the regression equation indicates the average change in flow per day in CFS. Table 2.4 presents the change in flow in CFS per year, which is calculated by multiplying the regression equation slope by 365.25 days per year.

from year to year. The Fort Churchill gauge showed the lowest decrease in flow as a percentage of average flow and the Carson City gauge showed the highest decrease in flow as a percentage of average flow. For comparison, Table 2.6 also includes combined flows from the East and West Fork gauges. These two gauges largely indicate the naturally occurring flow in the Carson River watershed and provide a baseline for other flows. It should be noted that regression models were also developed using the 10-year running average from annual flow data. These models were not as statistically significant, but the results were less than 5% different from the 10-year monthly running average data for all gauges except the East Fork gauge.

Table 2.6 – Trends in Instream Flow – Regression Analysis

Location		West Fork at Woodfords	East Fork near Gardnerville	West Fork + East Fork	Carson River near Carson City	Carson River near Fort Churchill
Annual Average Change in Flow	CFS	-0.11	-0.18	-0.29	-0.47	-0.18
Change in Flow between 1940 and 2019	CFS	-8.3	-14.9	-23.2	-36.5	-14.3
Average Flow between 1940 and 2019	CFS	103.5	367.5	468.3	403.9	380.1
% Average Change in Flow between 1940 and 2019		-8.20%	-3.88%	-4.83%	-9.11%	-3.80%

The trends for decreasing flows at each gauge appear to contradict the increasing occurrence of higher flows as shown in Table 2.5. It is assumed that this discrepancy between the regression and time period analysis may be attributable to the increased variation in instream flows (as indicated by the standard deviation which is discussed below). Theoretically, instream flows cannot drop below 0 CFS but theoretically there is no upper limit to flows. Not having a theoretical upper flow limit may be skewing the outputs of the time period analysis shown in Table 2.5. For example, at the Carson City Gauge (see Table 2.5) there were three years between 1940 and 1979 where the average annual flow exceeded 732 CFS (90th percentile flow) but there are eight years between 1980 and 2018 that exceeded 732 CFS. Similarly, at the Carson City gauge there was only one year between 1940 and 1979 where the average flow never exceeded 76 CFS (10th percentile). Between 1980 and 2018, there were 2 years where average flow never exceeded 76 CFS.

Figure 2.5 through Figure 2.8 also shows the 10-year running sample standard deviation for each of the four gauges. Standard deviation is a measure of how much variance is in a dataset or in other words how far the data varies from the average. The trendline through the 10-year running sample standard deviation has a significant positive slope, indicating that the sample standard deviation has been increasing over time. The interpretation of this trend is that instream flows have become more variable over time (as discussed in the previous paragraph). This trend is consistent with the time period analysis shown in Table 2.5.

The conclusion of this analysis is that instream river flows are becoming more inconsistent with higher highs, more frequent lows (can never go below 0 CFS), and a decreasing trend in instream flows. This trend is true for each gauge listed in Table 2.4. For water users along the Carson River, these trends are troubling. The result is an amplification of the “feast or famine” condition

that already exists for the Carson River with the average flow slowly decreasing. If this trend continues, flows will continue to become more extreme, less reliable, and the statistical average will continue to decline. The lack of significant storage in the upper watershed prevents any stabilization or mitigation of these extremes.

2.5 Water Storage

2.5.1 Existing Water Storage

Outside of Lahontan Reservoir (storage capacity of 294,000 AF), there is very limited surface water storage within the Carson River watershed. Table 2.7 provides a summary of existing reservoirs above Lahontan Reservoir providing a combined storage capacity of approximately 11,766 AF. This storage volume is a mere 4% of the storage available in Lahontan Reservoir. With Lahontan included, the Carson River watershed contains 305,766 AF of storage. By comparison, the Truckee River watershed contains 1,089,210 AF of storage⁵ (Wathen, Larrouy, & Callahan, 2012), nearly 3.6 times more storage than the Carson River watershed.

Table 2.7 – Carson River Reservoirs above Lahontan (Wathen, Larrouy, & Callahan, 2012)

Reservoir	Fork	Decreed Storage (AF)	Ownership	Priority
Scott Lake	West	508	Dressler, Neddenriep	1895, 1918
Red Lake	West	1,103	California Fish and Game	1895 & 1922
Crater Lake	West	167	Dressler	1895
East Lost Lake	West	92	Carson Subconservancy District	1924
West Lost Lake	West	127	Carson Subconservancy District	1924
Mud Lake	West	3,172	Bently Agrodynamics	1879 & 1909
Tamarack Lake	East	404	Alpine Land and Reservoir Company	1895
Kinney Meadows	East	435	Alpine Land and Reservoir Company	1895
Upper Kinney Meadows	East	328	Alpine Land and Reservoir Company	1895
Lower Kinney Meadows	East	495	Alpine Land and Reservoir Company	1895
Wet Meadows	East	207	Alpine Land and Reservoir Company	1895
Lower Sunset	East	250	Alpine Land and Reservoir Company	1895
Upper Sunset	East	68	Alpine Land and Reservoir Company	1895
Summit Lake	East	31	Alpine Land and Reservoir Company	1901
Raymond Lake	East	50	Alpine Land and Reservoir Company	1895
Heenan Lake	East	2,948	Bently Agrodynamics and California Fish and Game	1923
Burnside Lake	East	100	Bently Agrodynamics	1892
Allerman No.'s 1, 2, & 4	East	1,081	Park Cattle & Bently Agrodynamics	1877 & 1905
Ambrosetti	East	200	Carson City	1882

⁵ Lake Tahoe = 744,600 AF, Independence = 17,500 AF, Donner = 9,500 AF, Boca = 40,870 AF, Prosser = 29,840 AF, Stampede = 226,500, and Martis = 20,400 AF. It should be noted that Martis Reservoir is used primarily for flood control and usually operates at minimum pool.

Reservoir	Fork	Decreed Storage (AF)	Ownership	Priority
Total West Fork		5,169		
Total East Fork		6,597		
Total Reservoir Storage		11,766		

2.5.2 Historically Proposed Water Storage Projects

There is a long history of investigations and proposals for additional surface water storage in the Carson River watershed. As far back as 1888, legislation identified and withdrew certain lands for construction of reservoirs. In the 1888 legislation, lands for the following reservoirs were identified (Pumphrey, 1955):

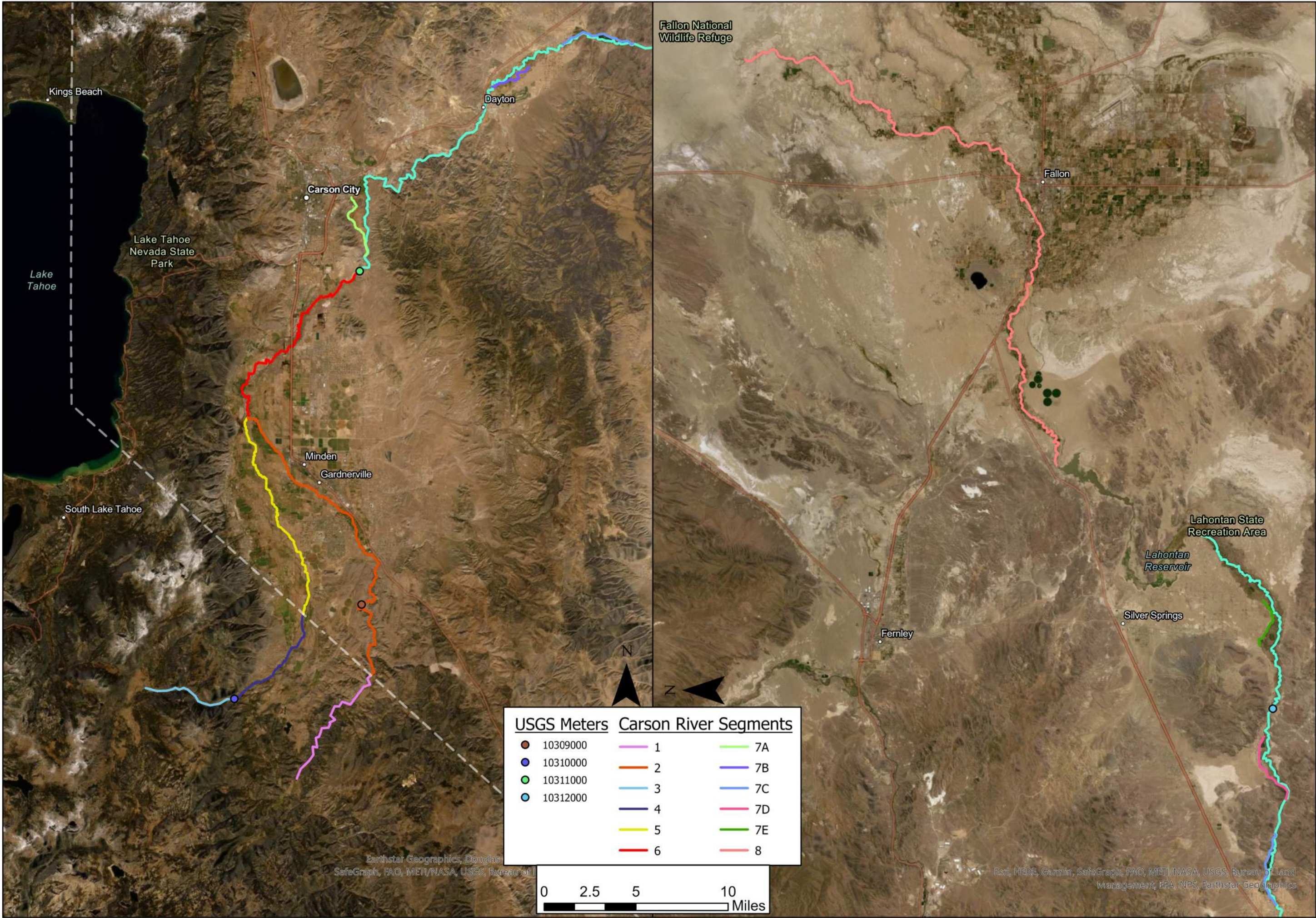
- Pleasant Valley
- Mt. Bullion
- Indian Pool
- Heenan Lake
- Silver King
- Wolf Creek
- Dumonts Meadow
- Hope Valley
- Harveys Meadow

In 1955, the USGS published a report evaluating potential surface water storage and power generation sites in the Upper Carson River basin. The report identified the following potential reservoirs (Pumphrey, 1955):

- Hope Valley, West Fork
 - Base elevation – 7,000 feet
 - Pool elevation – 7,120 feet
 - Area at pool elevation – 1,180 acres
 - Capacity at pool elevation – 30,100 AF
 - Notes: Regulation dam or out of basin water imports would be required to satisfy water rights
- Horseshow Bend, East Fork
 - Base elevation – 4,960 feet
 - Pool elevation – 5,200 feet
 - Area at pool elevation – 1,190 acres
 - Capacity at pool elevation – 103,000 AF
 - Notes: An auxiliary dam would be required to develop this site to full capacity. It was noted that a ~2 mile tunnel could connect this site to the West Fork to reduce the impacts from construction of the Hope Valley reservoir.
- Watasheamu, East Fork
 - Base elevation – 5,020 feet
 - Pool elevation – 5,300 feet
 - Area at pool elevation – 1,780 acres
 - Capacity at pool elevation – 175,000 AF

- Pinyon, East Fork
 - Base elevation – 5,080 feet
 - Pool elevation – 5,400 feet
 - Area at pool elevation – 2,340 acres
 - Capacity at pool elevation – 284,000 AF
- Markleeville, East Fork
 - 97,000 AF of storage with 230-foot dam
 - 244,000 AF of storage with 330-foot dam
- Silver King, East Fork
 - Base elevation – 6,370 feet
 - Pool elevation – 6,500 feet
 - Area at pool elevation – 777 acres
 - Capacity at pool elevation – 44,200 AF
- Dumonts Meadow, East Fork
 - Base elevation – 6,670 feet
 - Pool elevation – 6,800 feet
 - Area at pool elevation – 552 acres
 - Capacity at pool elevation – 35,000 AF
- Pleasant Valley, Pleasant Valley Creek (East Fork)
 - Base elevation – 5,790 feet
 - Pool elevation – 6,000 feet
 - Area at pool elevation – 790 acres
 - Capacity at pool elevation – 59,900 AF
- Wolf Creek, Wolf Creek (East Fork)
 - Base elevation – 6,360 feet
 - Pool elevation – 6,500 feet
 - Area at pool elevation – 394 acres
 - Capacity at pool elevation – 26,100 AF

It should be noted that of the 1888 and 1955 sites listed above, only Heenan Lake was constructed. However, investigative and planning efforts for several reservoirs, especially the proposed Watasheamu reservoir, have been ongoing for many years.



(LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.)

Carson City Subconservancy District
**Alpine Decree
 River Segments Map**
 Carson City NV

USGS Meters	Carson River Segments	
10309000	1	7A
10310000	2	7B
10311000	3	7C
10312000	4	7D
	5	7E
	6	8



REV DATE	DESCRIPTION	BY

BAR IS 1 INCH ON ORIGINAL DRAWING
 0" 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
FIG 2.9

DRAWN BY: DRB
 DESIGNED BY: LM
 CHECKED BY: NTC
 JOB NO.: 9834.000
 SHEETS:

Earthstar Geographics, Douglas
 SafeGraph, FAO, METI/NASA, USGS, Bureau of Land

Est. HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land
 Management, EPA, NPS, Earthstar Geographics



©LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.

Carson Water Subconservancy District
Hydrographic Basins
 Carson City Nevada

REV DATE	DESCRIPTION	BY

BAR IS 1 INCH ON ORIGINAL DRAWING
 0" 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
FIG 2.10

DRAWN BY: DRB
 DESIGNED BY: NTC
 CHECKED BY: NTC
 JOB NO.: 9834.000
 SHEETS:

Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, Earthstar Geographics

3.0 WATER USE

3.1 Groundwater Basin Usage

As previously discussed, except for Carson City, Douglas County, and Lyon County, all municipal water systems rely solely on groundwater as their water source. However, there are numerous other interests and users that rely on groundwater. These other uses include irrigation, commercial, recreation, environmental, domestic, livestock, etc. Groundwater users most commonly rely on a well to pump water out of the groundwater aquifer for use. As a result, there is a vast network of water wells located throughout the Carson River watershed allowing water to be extracted from the aquifer.

As discussed in Section 2.3, the Carson River watershed is divided into seven distinct hydrographic basins, one in California and the remaining basins in Nevada. Groundwater withdrawal data from the hydrographic basins was obtained from the Nevada Division of Water Resources (State of Nevada Division of Water Resources, 2020). Groundwater withdrawal data is not available from California Basin 6-006. California Basin 6-006 and Nevada Basin 105 are physically the same hydrographic basin that is divided by the California-Nevada state line. On the California side of the Carson Valley Basin the primary users are a limited number of domestic wells. Since there are a limited number of users in the California portion of the Carson Valley Basin, it is assumed that data from the Nevada side of the basin is generally representative of the entire basin. Of the other basins, no groundwater withdrawal data is available from Nevada Basin 101A (Packard Valley) and only limited data is available from Basin 101 (Carson Desert). Data has been categorized as irrigation (agricultural), domestic (private wells), municipal / quasi-municipal, and other. The "other" category includes various mining, industrial, recreation, environmental, etc. uses.

Table 3.1 shows the average annual withdrawals by hydrographic basin from 2013 to 2017, the perennial yield (and system yield when available), and the percent of the perennial yield that is being withdrawn from each basin. Reported perennial and system yields are taken from the Nevada Department of Water Resources Hydrographic Basin Summaries (2020). Perennial yield refers to naturally occurring recharge, generally through precipitation. System yield includes the perennial yield plus other sources of groundwater recharge such as irrigation and engineered recharge. Active recharge sites include Carson City's aquifer storage and recovery (ASR) system in Vicee Canyon (primarily from the Marlette Lake Water System), wells located in Eastern Carson City that inject treated water into the aquifer, and wastewater rapid infiltration basins located at several locations in the watershed. System yield is generally considered a more accurate representation of aquifer capacity. It should be noted that estimates of the perennial and system yields are not exact and there are other entities that have indicated different basins yields. However, for this project, the Nevada Division of Water Resources is considered the authoritative source. From Table 3.1, Churchill Valley and the Carson Desert hydrographic basins are withdrawing more water than the perennial yield. However, over the entire watershed, between 81% and 96% of available aquifer capacity is currently being used. There is between 2,700 to 14,700 AFA of additional groundwater available in the Carson River watershed. If system yield is considered, the available aquifer capacity would be even greater.

Table 3.1 – Nevada Groundwater Usage by Hydrographic Basin (Nevada Division of Water Resources, 2020)

Groundwater Basin #	Groundwater Basin Name	2013 to 2017 Average Annual Withdrawals (AFA)	Perennial Yield (System Yield) (AFA)	Average Withdrawals as a % of Perennial Yield (System Yield)
CA 6-006	Carson Valley	31,460	49,000	64%
NV105	Carson Valley			
NV 104	Eagle Valley (Carson City)	4,607	4,900 (9,000)	94% (51%)
NV 103	Dayton Valley (Dayton)	8,723	8,000 to 20,000 ⁶	109% to 44%
NV 102	Churchill Valley (Silver Springs)	2,267	1,600	142%
NV 101	Carson Desert (Fallon) ⁷	16,235	2,500	650% ⁸
NV 101A	Packard Valley	Unknown	710	Unknown
Total		63,291	66,000 to 78,000	96% to 81%

Based on available data and perennial yield estimates, there is some additional groundwater capacity in the Carson River watershed. It does not appear that groundwater quantity is a limitation for the watershed as a whole. However, local limitations such as groundwater quality, hydrogeologic limitations of the aquifer, and transmission of available water do pose serious challenges in some areas of the watershed. For example, the Carson Valley has aquifer capacity in excess of the current demand. But, arsenic, low pH, manganese, fluoride, total dissolved solids (TDS), and nitrate are all documented water quality issues present in the Carson Valley that reduce the usability of groundwater for potable purposes. Treatment is required to correct these water quality issues before groundwater can be used for potable use in a community water system. Other issues include sub-hydrographic basins with inadequate capacity to meet demand, such as the Ruhenstroth area of the Carson Valley or documented contamination of groundwater from septic systems (Naranjo, Welborn, & Rosen, 2013). Although Ruhenstroth, Fish Springs, and Johnson Lane are all located in the Carson Valley, these areas do not experience the same aquifer capacity that other areas of the Carson Valley do. Much of this has to do with recharge capacity (these areas are on the east, or Pinenut side of the Carson Valley) and hydrogeologic conditions.

Figure 3.1 summarizes the average groundwater withdrawals as a function of withdrawal type and hydrographic basin. This figure shows the magnitude of the water used in the Carson Valley compared to other downstream basins. Between 2013 and 2017, groundwater withdrawals from the Carson Valley Basin accounted for nearly 50% of all groundwater withdrawals in the Carson River watershed. Eagle Valley, Dayton Valley, Churchill Valley, and the Carson Desert accounted

⁶ Although this range is reported by the Nevada Division of Water Resources as the perennial yield, it may be more representative of the system yield.

⁷ Comprehensive data for the Carson Desert Basin is not widely available. Presented data is based on 2013 and 2015 statewide pumpage reports available through the Nevada Division of Water Resource.

⁸ Although accurate, this number is somewhat misleading. Although the perennial yield in the Carson Desert is relatively small, the system yield is likely significantly higher. The Carson Desert hydrographic basin is heavily influenced by irrigation and transfers from the Truckee River.

for 7%, 14%, 4%, and 26% of total groundwater withdrawals in the Carson River watershed, respectively. It should be noted that data for withdrawals from domestic wells is estimated by the Nevada Division of Water Resources assuming one (1) AFA is withdrawn from each domestic well per annum. Domestic well owners are not required to monitor use, so the reported values for domestic wells should only be considered an estimate.

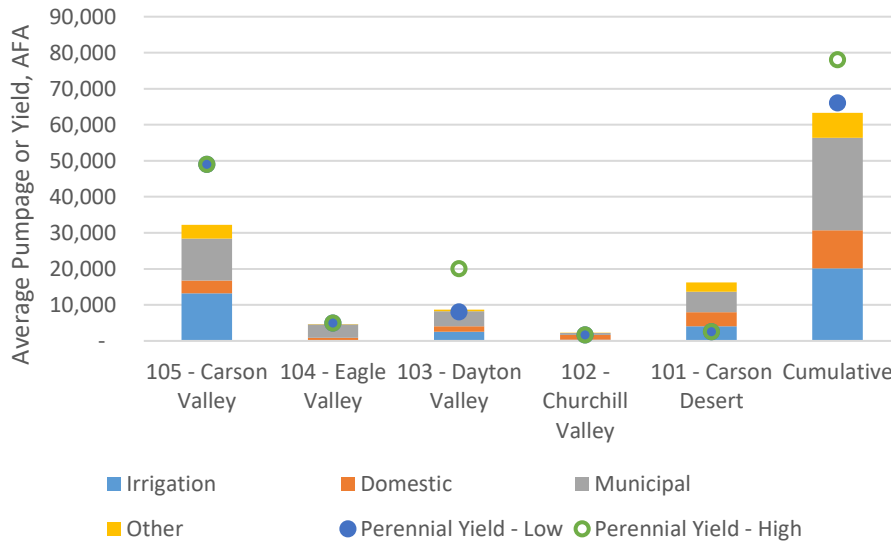


Figure 3.1 – Groundwater Usage by Hydrographic Basin

Table 3.2 illustrates the issued water rights as a percentage of the perennial yield. This Figure indicates that every hydrographic basin is over allocated based on currently issued water rights and estimated perennial yield. This is a potentially serious issue; however, it is not likely that all the issued water rights will be exercised such that actual pumping will increase to the issued water rights volume (see Table 3.1). This water deficit could be partially mitigated by determining the system yield for each basin rather than using just the perennial yield. As previously discussed, system yield considers other recharges such as irrigation and engineered recharge systems.

Table 3.2 highlights the discrepancy between “paper water” and “wet water”. “Paper water” refers to a water right that allows an entity to withdraw water from the aquifer. Whereas “wet water” refers to the physical water in the aquifer. In many situations “paper water” exists where “wet water” does not exist or where it is not of sufficient quantity or quality for the intended use. In some areas, such as Silver Springs, there is an excess of “paper water” but insufficient “wet water” making some water rights essentially unusable. At times, the volume of “wet water” can vary. For example, a 2011 USGS report documented long-term declines in static groundwater levels of more than 40-feet on the northwest side of Carson City and water level declines of 10-feet have been documented in the Carson Plains and Stagecoach sub-hydrographic basins (Maurer, 2011). However, more recent data suggests that some of this long-term static groundwater level decline has recovered, partially because of recharge activities in Carson City. Additionally, it is important to note that Perennial Yield is the amount of water found within the basin without accounting for man-made recharging processes. This Perennial Yield accounts for infiltration, precipitation and other natural sources and does not account for all of the water available within the basin.

Table 3.2 – Groundwater Water Rights by Hydrographic Basin as a Percent of Basin Perennial Yield

	Irrigation	Domestic	Municipal	Other	Total
105 – Carson Valley	105%	3%	71%	17%	195%
104 – Eagle Valley	8%	0%	145%	6%	160%
103 – Dayton Valley	90% / 36%	6% / 2%	187% / 75%	24% / 9%	306% / 123%
102 – Churchill Valley	224%	0%	332%	28%	585%
101 – Carson Desert	161%	1%	427%	365%	793%
Cumulative	101%	3%	110%	30%	238%

In Nevada, groundwater use is based on the concepts of prior appropriation and beneficial use. Except for domestic wells, a water user must have a water right which allocates the diversion rate, duty, place of use, etc. of the withdrawal. In California, groundwater use is loosely regulated. In 2014, the California Sustainable Groundwater Management Act was enacted, requiring medium and high priority basins to balance pumping and recharge. At the time of this report, the only hydrographic basin located in the California portion of the Carson River watershed is not impacted by this law.

It should be noted that the data and discussion presented in this section does not consider the concept of conjunctive use and conjunctive management. In other words, this analysis does not account for the interaction and connection between surface water and groundwater. However, the authors acknowledge the interaction and connection between surface water and groundwater, but it was beyond the scope of this project to consider this interaction.

3.2 Municipal Water Usage

3.2.1 Current Use

Within the Carson River watershed there are 84 regulated potable water systems stretching from Alpine County to Churchill County (for a complete list, see Appendix D). Of these systems, there are 32 “community” water systems⁹ that provide water to approximately 44,000 residential, commercial, industrial, and landscape irrigation water services connections in the watershed. The remaining 52 regulated systems are classified as non-community water systems which include businesses not connected to a municipal water system, parks, campgrounds, etc. Non-community water systems were not analyzed as part of this project (California State Water Resources Board, n.d.; Nevada Division of Environmental Protection, n.d.).

Of the 32 community water systems in the watershed, water usage data was collected from 18 systems, representing 97.5% of the water system service connections¹⁰. Table 3.3 contains summary data from these water systems. Data presented in this table is taken primarily from pumpage records from 2015 to 2019 and is ordered from highest usage per connection to the smallest usage per connection. The average total annual usage for these water utilities is 25,796 AFA. Assuming that all other community water systems usage is consistent with those systems shown in Table 3.3, total community water system demand in the Carson River watershed (for all 32 community water systems) would be approximately 26,460 AFA, or 8,620 million gallons of

⁹ A community water system is defined as a system that supplies water to the same population year-round.

¹⁰ Douglas County operates 6 different permitted community water systems in the Carson Valley. For simplicity these systems are collectively referred to as Douglas County.

water per year. Figure 3.2 depicts the volume of water usage per entity compared to other water systems. For illustration, Figure 3.3 shows the seasonal changes in demand per connection for Douglas County water systems (on average, the highest user per connection). For Douglas County the average to monthly demand multiplier varies from a low of 0.27 in February to a high of 2.06 in August (average day demand to average month demand). This data highlights the seasonal changes in water demand in the Carson River Watershed. Other water systems are expected to have similar demand curves but the average to monthly multipliers will likely vary from water system to water system.

Table 3.3 – Water Usage Data from Select Community Water Systems

	Connections	% of Connections	Average Annual Usage (AFA) ^E	% of Average Usage	AFA per Connection ^F	% of Avg AFA per Connection
Douglas County ^A	2,378	6.4%	2,088	8.1%	0.76	126.9%
Gardnerville Ranchos GID ^A	3,992	9.3%	2,881	11.2%	0.72	120.0%
Town of Minden ^B	1,799	4.2%	1,252	4.9%	0.70	115.8%
City of Fallon ^B	3,215	7.5%	2,220	8.6%	0.69	114.9%
Carson City ^A	16,883	39.3%	11,078	42.9%	0.66	109.1%
Churchill County ^C	271	0.6%	147	0.6%	0.54	90.5%
Gardnerville Water Co ^A	2,376	5.5%	1,279	5.0%	0.54	89.5%
Indian Hills GID ^A	1,950	4.5%	995	3.9%	0.51	84.8%
Stagecoach GID ^B	564	1.3%	256	1.0%	0.45	75.5%
Silver Springs GID ^B	1,088	2.5%	484	1.9%	0.44	74.0%
Lyon County Utility District ^A	6,849	16.0%	2,772	10.7%	0.40	67.3%
Storey County ^D	635	1.5%	231	0.9%	0.36	60.6%
NAS Fallon ^B	550	1.3%	113	0.4%	0.21	34.2%
Total or Weighted Average	42,910		25,796		0.60	

^A Data was provided directly from the utility to Lumos & Associates. Douglas County operates 6 community water systems in the Carson Valley.

^B Data was provided to Lumos & Associates by CWSD staff.

^C Data extracted from *Churchill County Water and Wastewater Utilities Master Plan* (Shaw Engineering, 2019).

^D Data provided to Lumos & Associates by the Marlette-Hobart Water System

^E One-acre foot of water is equal to 325,851 gallons of water. The largest water user, Carson City, uses on average 3,609.6 million gallons of water per year, or 9.9 million gallons per day. The smallest user, NAS Fallon, uses 36.8 million gallons of water per year, or 0.2 million gallons per day.

^F 1.12 AFA per equivalent dwelling unit (EDU) is commonly used for estimates of water use. 1.12 AFA is equal to nearly 1,000 gallons per day. In most cases, a water system will have more EDU's than water connections. The largest user on a per connection basis, Douglas County, uses on average 680 gallons per day per connection. The smallest user on a per connection basis, NAS Fallon, uses on average 183 gallons per day per connection. The weighted average usage is 544 gallons per day per connection.

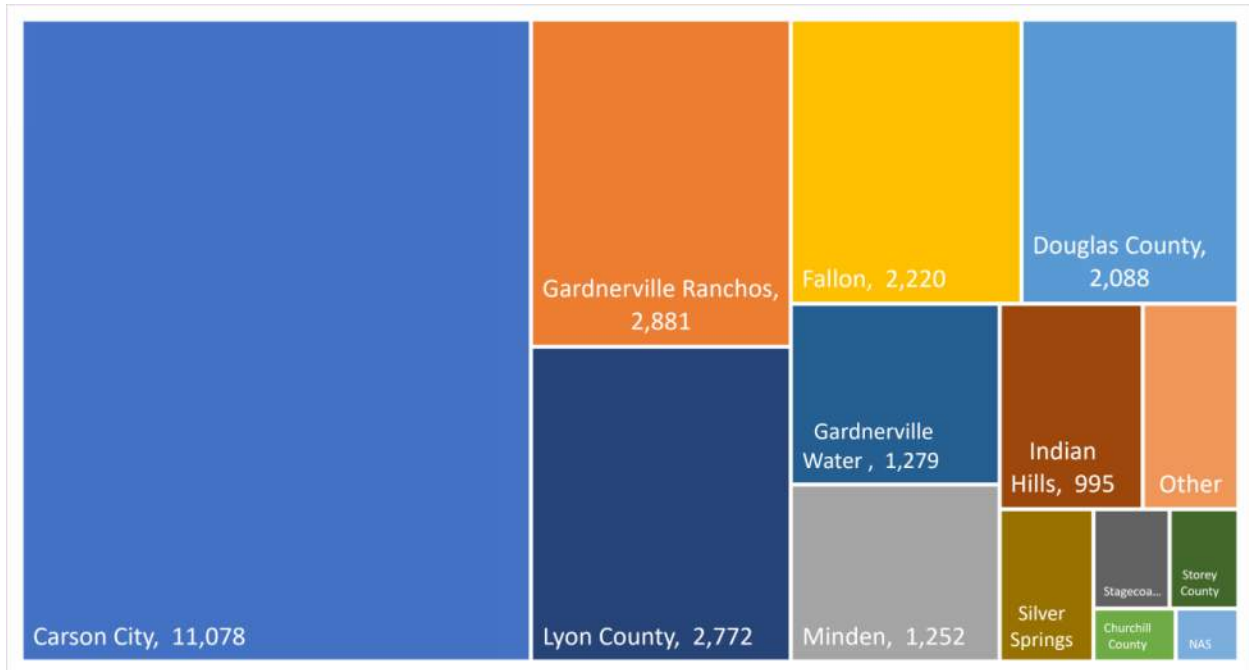


Figure 3.2 – Water Usage Comparison in AFA

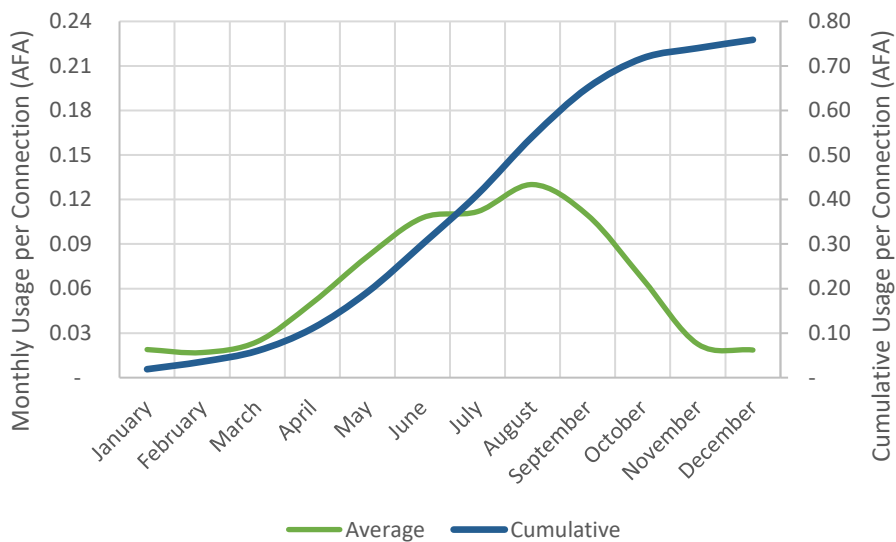


Figure 3.3 – 2015 to 2019 Douglas County Monthly Water Usage

All these water systems use groundwater to meet system demand. However, Carson City, Douglas County, and Lyon County Utilities also utilize surface water for potable use. Carson City utilizes induction wells and diverts water from Kings Creek, Ash Creek, and the Marlette Lake Water System (MLWS) for treatment at the Quill water treatment plant. The MLWS transfers water from the Tahoe Basin / Truckee River watershed to Carson City. On average, 17%, of Carson City’s public water supply comes from Kings Creek, Ash Creek, and the MLWS and 11%, comes from induction wells (Carson City Public Works Department, 2018). However, this will change as Carson City has plans to improve the Quill Water Treatment Plant with the intentions

of shifting more of the water supply towards surface water in order to prevent excess drawdown on groundwater sources as water-demands increase. Douglas County utilizes one induction well off Jack's Valley Road which accounts for approximately 2% of their water usage. Lyon County utilizes an induction well in the vicinity of the Rolling A wastewater treatment plant. In 2019, this induction well accounted for approximately 25% of water usage in the Lyon County Utility District water system¹¹.

It is important to note that many of these community water systems change the way that they use their water sources because of seasonal demand changes, growth, and changing water quality regulations. For example, in 2001 the EPA adopted a new standard for arsenic that dropped the maximum contaminant level (MCL) from 50 parts per billion (ppb) to 10 ppb. This rule significantly impacted numerous wells in the Carson River Watershed and was a motivating factor that led to the construction of the regional water system connecting Minden, Douglas County, Carson City, and Indian Hills. As another example, Carson City's ability to fully utilize surface water from Ash Creek and the MLWS has been significantly reduced due to implications of the Disinfection Byproducts Rule and the Long Term 2 Enhanced Surface Water Treatment Rule (LT2). These issues highlight the challenges with providing potable water. Community water systems must meet seasonally variable water demands, increasing demands due to growth, and increasingly more stringent water quality requirements.

3.2.2 Estimated Future Municipal Water Usage

Based on the 2015 to 2019 water usage data, future municipal water usage estimates were generated for each community water system shown in Table 3.3. Twenty-year water usage and connection counts were estimated using population growth projections from the Nevada State Demographer¹² (Hardcastle, 2019). Estimates indicate that population growth is expected to vary greatly from County to County. But growth rates for all counties are expected to decrease over time. Table 3.4 and Figure 3.4 summarizes expected water usage and water system customer counts between 2020 and 2040.

It should be noted that the Nevada State Demographers population growth estimates are used primarily for tax forecasting and other similar uses. As a result, the State Demographer's estimates may potentially underestimate actual growth. However, underestimating population growth may be offset by decreasing trends in water usage. Many community water systems are experiencing reductions in water usage per connection. Changes in water usage can be the result of water rate structures (increased cost can lead to reductions in usage), water efficient appliances, a trend towards smaller lots, water efficient landscaping, and cultural trends towards water conservation and sustainability.

¹¹ Lyon County's induction well (Well 20) usage varies from year to year. In the past, pumpage from this well has been impacted by system hydraulics, construction projects, and instream flows.

¹² The State Demographer projections end in 2038. The average growth rate from 2020 to 2038 were used to estimate growth in 2039 and 2040. Average estimated growth rates from Nevada were used to estimate usage and connections for water systems in California.

Table 3.4 – Water Usage and Connection Estimates

		2020	2025	2030	2035	2040	2020 to 2040 % Increase
Douglas County	Connections	2,754	2,796	2,807	2,799	2,781	0.9%
	Usage (AFA)	2,101	2,132	2,141	2,135	2,121	
Gardnerville Ranchos GID	Connections	4,016	4,077	4,093	4,081	4,054	0.9%
	Usage (AFA)	2,898	2,942	2,953	2,944	2,925	
Town of Minden	Connections	1,810	1,837	1,844	1,839	1,827	0.9%
	Usage (AFA)	1,260	1,279	1,284	1,280	1,272	
City of Fallon	Connections	3,225	3,257	3,319	3,369	3,401	5.5%
	Usage (AFA)	2,227	2,249	2,292	2,327	2,349	
Carson City	Connections	16,951	17,223	17,344	17,327	17,279	1.9%
	Usage (AFA)	11,122	11,301	11,380	11,369	11,337	
Churchill County	Connections	272	275	280	284	287	5.5%
	Usage (AFA)	148	149	152	155	156	
Gardnerville Water Co	Connections	2,390	2,426	2,436	2,429	2,413	0.9%
	Usage (AFA)	1,287	1,306	1,311	1,307	1,299	
Indian Hills GID	Connections	1,962	1,991	1,999	1,993	1,980	0.9%
	Usage (AFA)	1,001	1,016	1,020	1,017	1,010	
Stagecoach GID	Connections	575	623	653	670	687	19.5%
	Usage (AFA)	261	283	296	304	312	
Silver Springs GID	Connections	1,110	1,203	1,259	1,292	1,326	19.5%
	Usage (AFA)	494	535	560	575	590	
Lyon County Utility District	Connections	6,986	7,570	7,925	8,133	8,346	19.5%
	Usage (AFA)	2,828	3,064	3,208	3,292	3,378	
Storey County ¹³	Connections	652	744	841	922	1,000	53.4%
	Usage (AFA)	237	271	306	336	364	
NAS Fallon	Connections	552	557	568	576	582	5.5%
	Usage (AFA)	113	114	117	118	120	
Other	Connections	1,122	1,181	1,229	1,261	1,289	14.8%
	Usage (AFA)	675	710	739	758	775	
Total or Weighted Average	Connections	44,376	45,761	46,597	46,975	47,251	6.5%
	Usage (AFA)	26,650	27,352	27,759	27,916	28,007	5.1%
	Demand / Connection	0.60	0.60	0.60	0.59	0.59	

¹³ Much of the projected growth in Storey County is likely to occur outside of the Carson River Watershed.

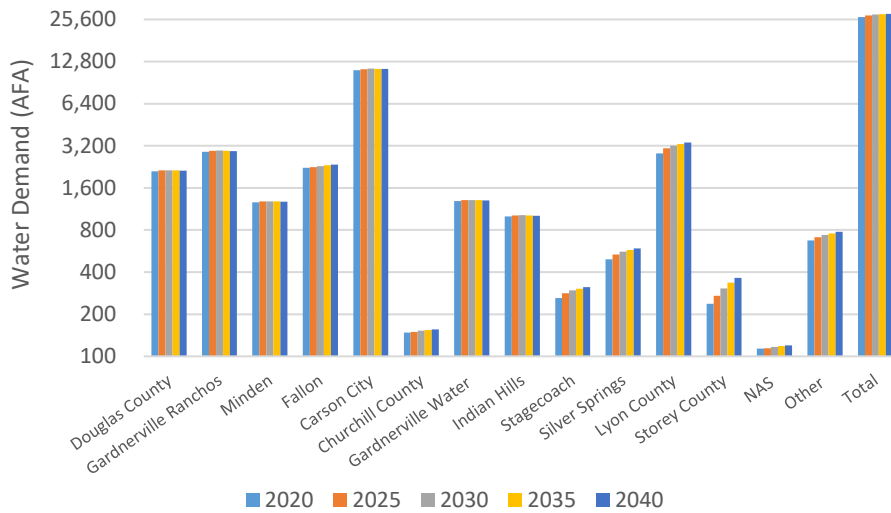


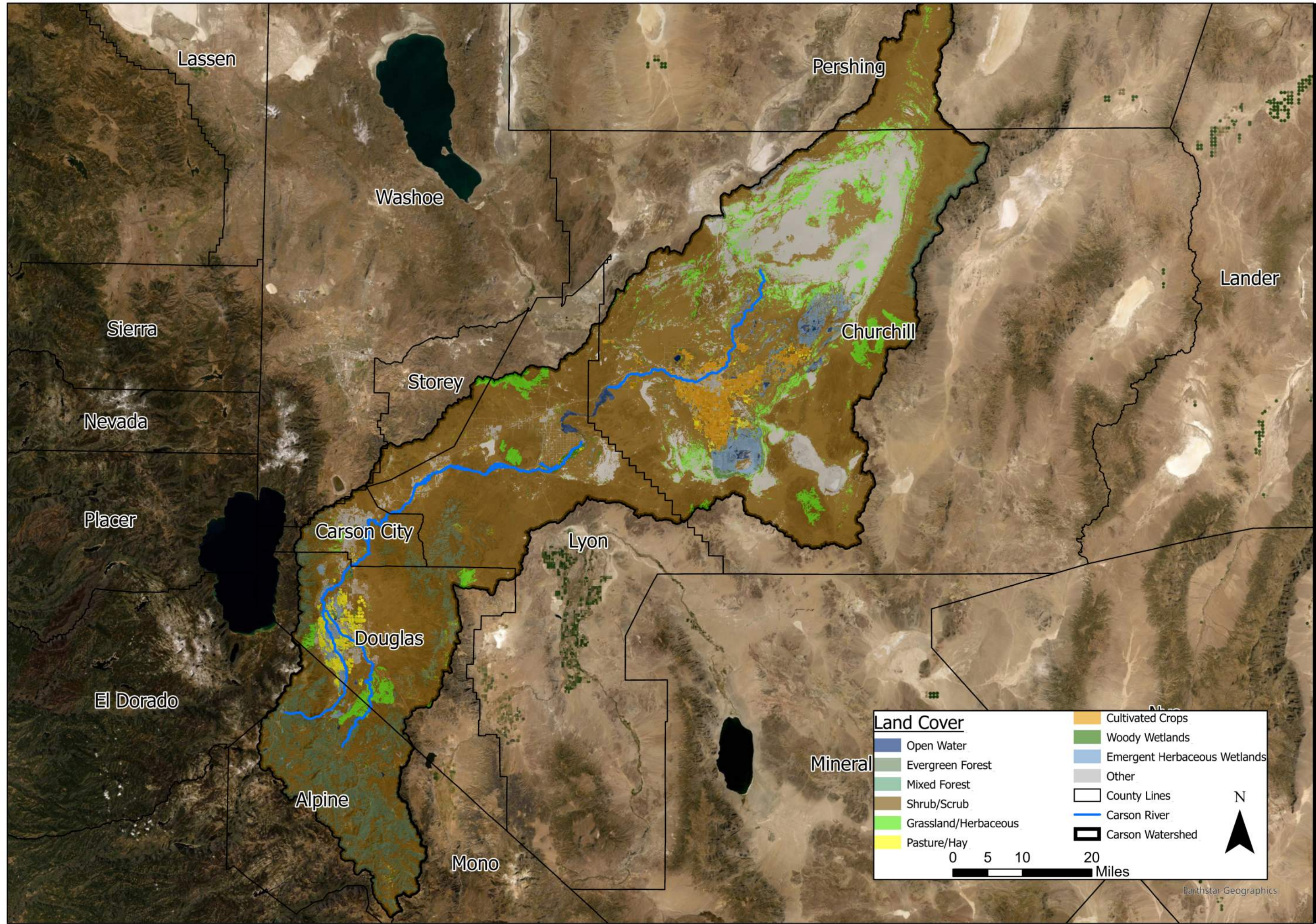
Figure 3.4 – Estimated Water Usage by Water System

3.3 Agricultural Usage

The Carson River watershed encompasses many livestock-raising properties, especially in Douglas, Lyon, and Churchill counties. However, the U.S. Department of the Interior and U.S. Geological Survey both concluded that livestock in Nevada receive an inconsequential amount of water from surface water sources. Most livestock receive water from wells or on-farm water sources such as precipitation-filled ponds and troughs (US Department of the Interior, US Geological Survey, 2014). In their report, the US Department of the Interior indicates that it is unlikely that significant surface water resources will be diverted for livestock soon.

Throughout Nevada there are 6.1 Million Acres of total farmland and most crops include alfalfa and hay as well as some small corn and wheat farms (U.S. Department of Agriculture, 2019). Utilizing data from the Department of Agriculture, estimates of how much of this land is in the Carson watershed were made. Using this it was possible to estimate how much surface water was used by each county from the Carson River. The Carson River travels through Douglas, Carson City, Lyon, and Churchill counties, but not all the counties receive all their surface water from The Carson River watershed. For example, Yerington, a large population and agricultural area in Lyon County, receives no water from the Carson River. The National Landcover Database was used estimate how much of the irrigated land in each county was in the watershed. Using the National Land Cover Database, agricultural land was classified into the type of vegetation and how the land has been developed either by nature or by human-intervention.

Utilizing this process, the total area of irrigated farmland in Douglas, Carson City, Lyon, and Churchill counties was estimated to be 136,000 acres (see Figure 3.5). Based on data in the 2017 Census of Agriculture, it was determined that the average water application rate in Nevada is 2.8 Acre-feet of water per acre of irrigated land (2019). Using this value, the estimated water demand for agriculture in the Carson watershed is 380,800 Acre-feet.



(LUMOS & ASSOCIATES, INC. THIS DRAWING IS THE PROPERTY OF LUMOS & ASSOCIATES, INC. USE OR REPRODUCTION OF THIS DRAWING, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF LUMOS & ASSOCIATES, INC. IS STRICTLY PROHIBITED. THIS DRAWING IS NOT TO BE USED FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED.)

Carson City Subconservancy District
**Carson River Watershed
 Land Cover**
 STATE
 COUNTY
 CITY

REV DATE	DESCRIPTION	BY

BAR IS 1 INCH ON ORIGINAL DRAWING
 0" 1"
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

FIG 3.5
 DRAWN BY: DRB
 DESIGNED BY: DRB
 CHECKED BY: NTC
 JOB NO.: 9834.000
 SHEETS:

Land Cover

Open Water	Cultivated Crops
Evergreen Forest	Woody Wetlands
Mixed Forest	Emergent Herbaceous Wetlands
Shrub/Scrub	Other
Grassland/Herbaceous	County Lines
Pasture/Hay	Carson River
	Carson Watershed

0 5 10 20 Miles

Earthstar Geographics

4.0 CLIMATIC CONDITIONS

As discussed in Section 2.4, flows in the Carson River can be described as highly variable with flows trending downward over time. The purpose of this Section is to evaluate these trends in context with historical climatic conditions. To distinguish weather conditions from climatic conditions, annual temperature and precipitation data was used rather than daily weather data. Since the purpose of this report is not a detailed climatic evaluation of the watershed, the analysis presented in this chapter focuses on climatic conditions in Carson City and how these conditions correlate with flows at the Carson City gauge from 1940 to 2019.

Table 4.1 and Figure 4.1 shows annual precipitation and average annual temperature data for Carson City from 1940 to 2019 (Prism Climate Group, 2020). Like instream river flows, precipitation at Carson City can be highly variable from year to year as evidenced by the high standard deviation. Annual average temperature exhibits much less variability. Figure 4.1 shows trendlines for precipitation and average annual temperature. The trends indicate that the average temperature is trending up (at 0.0263 °F on average per year) and that precipitation is trending down (at -0.0364 inches on average per year)¹⁴. These trends are consistent with and highlight the previously presented finding that instream flows in the Carson River are trending down (based on the assumption that there is a correlation between instream flows and precipitation).

Table 4.1 – Carson City Climatic Summary, 1940 to 2019

	Annual Precipitation (inches)	Annual Average Temperature (°F)
Max	22.4	53.7
Average	10.2	50.4
Minimum	2.4	48.3
Standard Deviation	4.4	1.2

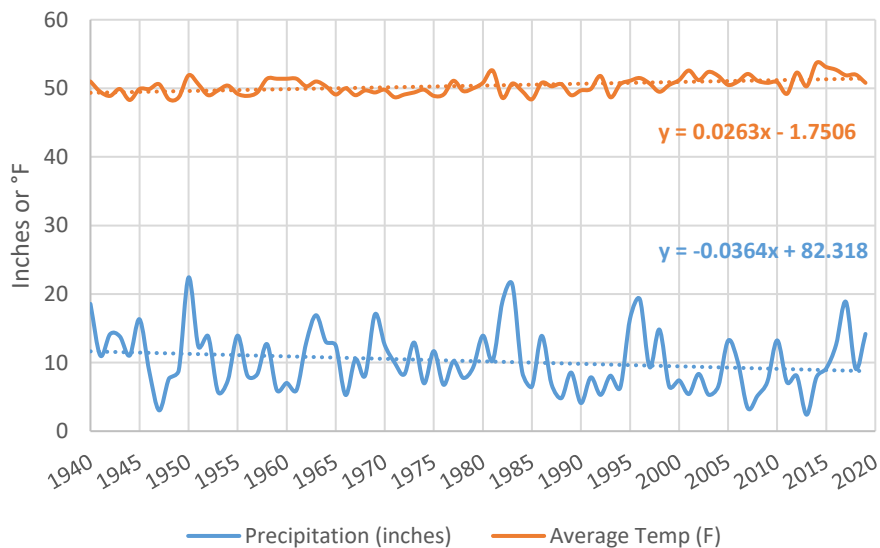


Figure 4.1 – Carson City Climatic Summary, 1940 to 2019

¹⁴ Both of these trends are statistically significant.

Multiple variable regression models were evaluated to determine the relationship between precipitation, temperature, and flows. The regression models indicated that precipitation and temperature both impacted flows in the Carson River. However, the regression models also indicated that other factors contributed to flow, and potentially more importantly, variability in flow. Other factors that may impact variability in flows include soil moisture, snowpack, precipitation type (snow or rain), spring runoff, upstream diversions, etc. Given the trends shown in Figure 4.1, and the relationship between temperature and precipitation, it can be concluded that increasing temperature and decreasing precipitation will result in a decrease in the average flows in the Carson River.

5.0 WATER MARKETING STRATEGIES

Sections 2.0 through 4.0 present and discuss numerous different topics related to the Carson River watershed. In summary, these sections highlight several important trends and topics, including:

- Flows in the Carson River are becoming more variable with higher highs and lower lows,
- Trends indicate that average instream flows have been declining over time,
- Climatic conditions are trending towards increasing temperatures and decreasing precipitation in Carson City,
- There is a lack of storage in the watershed, especially the upper watershed; and
- Population growth will likely increase future demand for water resources in the watershed.

Given these conditions, implementation of existing and new water management and marketing strategies will be needed to balance decreasing and more variable water supplies with increasing demand. Chapter 5.0 and 6.0 discuss existing and potential water marketing strategies, concepts, and alternatives that are or could be implemented to help address the likely future imbalance between water supply and demand.

5.1 Current Institutional and Water Marketing Practices

In the Carson River watershed, there are several existing programs, statutes, and decrees that govern the use of water, and by extension, the marketing of water. Regarding water marketing, the Alpine Decree and existing State water laws are of particular interest. As discussed in Chapter 2.0, the Alpine decree establishes surface water duties on the Carson River in both California and Nevada, establishes the right to reservoir storage, and defines the operation of the river on rotation. Additionally, the decree recognizes riparian rights in California and appropriative rights in Nevada (Nevada Division of Water Planning, 1999).

In addition to the Alpine Decree, state water laws also govern how water is used. In Nevada, water law is based on the concept of prior appropriation and beneficial use. In other words, water rights grant priority to water users ("first in time, first in right") for designated beneficial uses (State of Nevada Division of Water Resources, 2020). Regarding surface water, California water law is a system of riparian rights and prior appropriation. However, groundwater laws in California are limited and relatively new. The 2014 Sustainable Groundwater Management Act (SGMA) requires Groundwater Sustainability Plans and groundwater restrictions on high and medium priority basins. The Carson Valley hydrographic basin is not classified as a priority basin and as a result there are few laws, statutes, or codes that regulate the use of groundwater on the California side of the watershed. (California Department of Water Resources, 2020).

The Alpine Decree and prior appropriation determine rotation of surface water from the Carson River. However, the Alpine Decree does allow for the rotation and exchanging of water among ditches and users to improve water economy if the exchanges do not cause injury to other users. Through rotation, junior water rights are served as long as possible. In addition, the Alpine Decree allows for changes in the point of diversion, place of use, and manner of use. It should be noted that the process to change a point of diversion, place of use, and/or manner of use is an extensive and time-consuming process.

Like the Alpine Decree, Nevada state water law allows for changes in the point of diversion, place of use, and manner of use for groundwater. Although there are numerous restrictions and

limitations, Nevada groundwater rights in the Carson River watershed can be bought, sold, exchanged, and moved. However, these changes can require an extensive and time-consuming process, but ultimately do provide some level of flexibility in how water can be used. Arguably, existing laws and the Alpine Decree allow for several methods of water marketing within the watershed to increase the efficiency of water used.

Within the context of the Alpine Decree and State water laws, entities within the Carson River have effectively used existing water marketing mechanisms to maximize the use of water in the watershed. The following is a summary of some of these efforts:

- Farm Unit – Nevada Revised Statute (NRS) 533.040(4) states that a surface water right in a federal reclamation project is appurtenant to the “entire farm” and that the place of use can be the “entire farm” rather than an “identifiable” place within the farm. Water usage on the farm cannot exceed what has been allotted through decrees. This statute allows agricultural surface water users in the Newlands Project flexibility to use water where it may be most beneficial rather than a specific location within the farm unit. Within the Carson River Watershed, the concept of the Farm Unit only applies within the Newlands project through the Truckee-Carson Irrigation District (TCID).
- Regionalization – Significant action has been taken in recent years to interconnect community water systems to maximize water availability and to utilize the most efficient sources of water. These activities include construction of regional water infrastructure and the completion of multi-agency, collaborative studies. Regional infrastructure project includes:
 - Douglas County regional water system – Through this system, water from the Town of Minden is distributed to Douglas County (specifically the East Valley, North County, and West Valley water systems), Indian Hills GID, and Carson City. This system is supported by miles of transmission mains, numerous water tanks, two booster stations, and interagency coordination.
 - Other system interties include:
 - Gardnerville Water Company – Town of Minden
 - Douglas County – Sierra Estates GID
 - Douglas County – Carson City
 - Carson City – Lyon County Utilities
 - Various interties between Douglas County’s different community water systems (i.e., the Foothill water system is connected to the Sheridan Acres system).
- Water Rights Dedications – Many community water systems require either a dedication or purchase of existing water rights for new water system connections or developments. Historically, 1.12 AFA of water per residential connection has been required to either be dedicated to the water utility or purchased from the water utility¹⁵. This dedication rate exceeds average water usage (see Table 3.3) providing each entity a theoretical buffer between their “paper water” and “wet water.” In addition, several water purveyors have indicated that they have acquired various surface water rights over time.
- Water Reuse – Numerous entities use reclaimed water in the Carson River watershed. There are numerous wastewater treatment plants (WWTP) that eventually dispose of

¹⁵ In recent years some utilities have decreased this water right requirement per residential dwelling unit. In addition, there is inconsistency between community water systems on how the transfer or purchase of water rights is administratively managed.

treated effluent to the Carson River watershed. WWTPs range from outdated facilities to modern membrane systems that can meet stringent effluent requirements. The following is a summary of different municipal treated wastewater that is discharged to the Carson River watershed.

- South Lake Tahoe PUD – STPUD pumps treated wastewater over Luther Pass (CA Highway 89) to Harvey Place reservoir in Diamond Valley (Indian Creek drainage, a tributary of the East Fork of the Carson River). Water is used for irrigation of agricultural crops in Diamond Valley. This system imports water from the Tahoe Basin / Truckee River watershed to the Carson River watershed.
- Douglas County Lake Tahoe Sewer Authority – DCLTSA pumps treated wastewater over Kingsbury Grade (NV Highway 207) to a storage reservoir in Carson Valley. Water is used for irrigation of agricultural crops in Carson Valley. This system imports water from the Tahoe Basin / Truckee River watershed to the Carson River watershed.
- Incline Village GID – IVGID pumps treated wastewater over Spooner Summit (US Highway 50) to the Carson Valley. Treated effluent is used for golf course irrigation, irrigation of agricultural crops, and wetlands disposal. This system imports water from the Tahoe Basin / Truckee River watershed to the Carson River watershed.
- Markleeville Public Utility District – MPUD disposes of treated effluent in infiltration/evaporation basins adjacent to Markleeville Creek.
- Minden Gardnerville Sewer District – MGSD stores treated effluent in the Carson Valley for irrigation of agricultural crops. MGSD can store effluent in a storage reservoir adjacent to the WWTP or in a privately-owned reservoir.
- Indian Hills General Improvement District – IHGID disposes treated wastewater effluent through golf course irrigation. Storage is primarily in golf course water features.
- Douglas County – Douglas County disposes of treated wastewater effluent through irrigation of agricultural crops. Douglas County is also permitted to use a rapid infiltration basin (RIB) for disposal. During winter months Douglas County stores treated effluent in a lined storage reservoir adjacent to the North Valley WWTP.
- Carson City – Treated wastewater from the Carson City WWTP is used for golf course irrigation and irrigation of agricultural crops at the Prison farm. During winter months Carson City stores effluent in Brunswick Canyon Reservoir.
- Lyon County – Lyon County operates two wastewater treatment plants (Rolling A and South Plant). Treated effluent is disposed of through golf course irrigation and groundwater infiltration via rapid infiltration basins.
- Silver Springs – The Silver Springs WWTP is operated by Lyon County and primarily discharges treated effluent to the Silver Springs Airport for infiltration and evaporation.
- Churchill County – Treated effluent from the Moody Lane WWTP is primarily disposed of through evaporation / infiltration basins. However, the facility is permitted to discharge to the Wade Drain. It should be noted that the Moody Lane WWTP is a membrane bioreactor treatment process which can produce extremely high-quality effluent.
- City of Fallon – The City of Fallon is permitted to discharge treated effluent to the New River Drain.

- NAS Fallon – The Naval Air Station is permitted to discharge treated effluent to the Lower Diagonal Drain.

In many ways, water users within the Carson River watershed are utilizing existing water marketing tools to maximize the benefits of the Carson River within the framework of the Alpine Decree and existing water laws. Numerous collaborative programs and projects are in place that have improved the use of Carson River water. Future projects and interagency efforts should attempt to maximize the availability of water for the benefit of the watershed.

5.2 Future Water Marketing Concepts

The purpose of this section is to provide an overview of concepts that may be used for or as a component of future water marketing strategies. The following discussion focuses on very general concepts regarding how water from the Carson River can be removed, conveyed, stored, and how it can be later used. It is important to emphasize that this report assumes that any new water management strategy must satisfy the requirements of the Alpine Decree, state water law(s), and not negatively impact water users in the Carson River watershed. A more detailed discussion on how these concepts could be implemented is found in Chapter 6.0.

5.2.1 Surface Water Extraction

Induction Wells

Induction wells are typically shallow wells constructed near a surface water (lake, river, stream, etc.). From a water rights standpoint, the water pumped from an induction well is treated as surface water. As a result, surface water rights are assigned to induction wells. However, from a potable water standpoint, the definition and assumption that an induction well is surface water has significantly different implications. According to 40 CFR §141.2 groundwater under the direct impact of surface water (GWUDI) is defined as *any water beneath the surface of the ground with significant occurrence of insects or other microorganisms, algae, or large-diameter pathogens such as Giardia lamblia or Cryptosporidium, or significant and relatively rapid shifts in water characteristics such as turbidity, temperature, conductivity, or pH which closely correlate to climatological or surface water conditions*. If water from an underground source is classified as GWUDI it must be filtered and disinfected according to the Surface Water Treatment Rule (SWTR) before it can be considered potable. If the water is not classified as GWUDI, it can be treated as groundwater and may not require any treatment prior to use. As a result, water from an induction well that exhibits the characteristics of the surface water must be treated prior to potable use, resulting in significantly higher cost for construction and operation of infrastructure.

Induction wells may be used to extract surface water from the Carson River for storage and water use or potentially for direct use. From a water marketing infrastructure standpoint induction wells could be used to pump water to a storage system (see Section 5.2.3 below) so that water can be stored for later use or for direct use where needed. Induction wells are common in the Carson River watershed. As discussed in Section 3.2, Douglas County, Carson City, and Lyon County currently utilize induction wells to supply potable water. It should be noted that these induction wells are not classified as GWUDI.

Pumped Diversions

Pumped diversion requires infrastructure to pump surface water directly from a surface water source. A surface water right is required to pump water from a surface water source. Pumped water can be discharged into a gravity conveyance system or into a piped pressure system for deliver to the point of use (see Section 5.2.2). There are several different approaches to pumped diversions that can be used depending on various design factors, including quality of water and capital cost. Options include installing suction piping directly into the surface water with only a coarse screen on the suction line to screen large debris, plant, animals, etc. from being pumped into the system. Another option is to install the pump suction in a well screen constructed in the riverbed. The screen is placed in gravel pack and/or clean aggregate which can provide an effective screen to not only debris, plants, and animals, but can provide some removal of sediment and fine debris.

Surface Diversions

Surface diversions often consist of diversion structures that redirect a portion of flow into another flow channel. Surface water rights are required to use a surface water diversion. Surface diversions are common in agricultural irrigation systems where water can be diverted to different locations through diversion dams, headgates, check dams, etc. In most cases various diversion structures are connected through surface and gravity pipe conveyance systems.

5.2.2 Water Conveyance

Surface Conveyance

Surface conveyance systems typically consist of a series of diversion structures, canals, and/or ditches used to move surface water by gravity to where it is used. The Carson River watershed already utilizes a large network of diversion structures, canals, and ditches for irrigation purposes. The Newlands project constructed a large surface distribution network that the Tahoe Carson Irrigation District operates and maintains.

In relation to potential water marketing concepts, existing or new diversions/canal/ditches/ could transport surface water from the Carson River to a storage system (see Section 5.2.3 below) for water to be stored and used later.

Piped Conveyance

Like a surface conveyance system, a piped conveyance system transports water from its source to where it is used. Unlike a surface conveyance system, piped conveyance can be designed and operated as gravity or pressure systems. Gravity systems operate like a surface conveyance system, pipes are installed at grades that allow water to flow from one point to another by gravity. In a gravity pipe system, water levels in the pipe are often less than the diameter of the pipe¹⁶. Gravity systems operate like canals or ditches, with the primary difference being that a piped gravity system is enclosed, allowing the system to be buried but less accessible. Municipal sewer systems rely on gravity pipe systems extensively to collect raw wastewater from system users. Piped gravity systems can decrease water losses (through evaporation and leakage) and reduce

¹⁶ The relationship between the depths of flow to the diameter of the pipe is often referred to as the d/D ratio, where d is the depth of flow and D is the diameter of the pipe. Typically d/D ratios range from 0.5 to 0.75, meaning that the depth of the flow never reaches the diameter of the pipe.

the risk of contamination but may have a higher capital construction cost when compared to surface conveyance systems.

Unlike gravity systems, pressure pipe systems are designed and operated so that the depth of flow in the pipe is the same as the diameter, resulting in the water pressure in the pipe exceeding atmospheric pressure. The energy to pressurize the water in the pipe is typically provided by pumps or when the water source is at a higher elevation than the pipe, resulting in water pressure. A pressure pipe conveyance system is generally required when water must be delivered to higher elevations (via pumping) or when pressure is required at the delivery point. Potable water systems use pressure pipe systems to deliver pressurized water to system connections at varying elevations.

5.2.3 Water Storage

Aquifer Storage

Aquifer Storage (which is also known as managed aquifer recharge (MAR)) is a manmade, managed process used to replenish groundwater aquifers. Aquifer storage and recovery (ASR) is the process of replenishing an aquifer with ability to use the stored water later. Aquifer storage is normally achieved through supplementing natural aquifer recharge through water spreading, infiltration basins, or injection wells. Water can later be recovered through extraction wells, or in some cases return flows to a surface body (US Environmental Protection Agency, 2018). To implement an aquifer storage system there are both administrative / permitting requirements and physical infrastructure requirements. In Nevada, administrative requirements include permitting requirements through the Nevada Division of Water Resources and potentially the Nevada Division of Environmental Protection Bureau of Safe Drinking Water (if stored water will be used for potable purposes). Physical infrastructure can vary greatly based on the method of recharge and extraction. Surface water injection requires construction of injection wells. Surface water infiltration requires construction of infiltration basins or water spreading basins. Water is typically recovered through wells but there is some evidence that proper hydrogeological conditions and proximity to surface waters can lead to natural return flows to a surface water body (Niswonger, Morway, Triana, & Huntington, 2017).

New Reservoir Storage

As discussed in Section 2.5.2 there have been numerous historical proposals to construct new reservoirs in the Carson River watershed. Most of these historical proposals were to construct reservoirs in existing stream or river channels (onstream reservoirs). Given the environmental impacts and cost of these projects, it is assumed that constructing an onstream dam and reservoir is not a feasible option. As a result, only offstream reservoir storage alternatives are considered in this report. Offstream reservoirs may have a smaller environmental impact than onstream reservoirs. In addition, there is likely a larger variety of suitable locations and construction options to develop new offstream reservoirs.

Depending on various factors, including storage capacity and topography, an offline reservoir can be constructed using dams, levees, embankments, and/or excavations. The new reservoir can be lined to reduce water loss to seepage or can be unlined to allow (or even encourage) seepage. The reservoir can be filled through various extraction and conveyance methods (see Sections 5.2.1 and 5.2.2) via gravity through canals, ditches, and pipes, or water can be pumped to the new reservoir.

Offstream reservoirs are somewhat common in the Carson River watershed. Existing offstream reservoirs are largely used for agricultural uses and storage of treated wastewater effluent.

Expand Existing Reservoir Storage

As shown in Table 2.7 and discussed in Section 2.5.1, outside of Lahontan Reservoir existing surface water storage in the Carson River watershed is limited to numerous small reservoirs. In some cases, it may be possible to expand existing dams to increase the storage capacity of some of these existing reservoirs. Expanding existing reservoirs may pose numerous challenges including environmental impacts. In addition, many of the smaller reservoirs are privately owned which could lead to complex contractual requirements.

5.2.4 Water Banking

Water banking is a concept where water right owners can voluntarily and temporarily transfer the use of their water rights to another owner. Water banks allow regional water users flexibility to exchange water, to mitigate the short-term effects of drought (Sanchari Ghosh, 2014). Additionally, water banking can better sustain water users and maintain a strong level of local involvement in water resource strategies. It is a particularly attractive concept to private water rights owners, who can generate income from these transactions and have their water rights protected through relationships with public entities. In return, public entities are benefitted by the ability to ensure that public water is being put to the most beneficial uses. As a result, water banking may provide the greatest benefit to municipal water users in the Carson River watershed. Lastly, adopting a water banking system allows for a more transparent way for willing water rights holders to advertise their water rights in an equal opportunity environment and allows for multiple beneficiaries (Lewis, 2021).

Especially in drought prone areas of the western United States, water banking presents a real water marketing solution to meet increased social, environmental, and economic demands. In 2020, the Utah State Legislature approved a pilot program to begin studying how water banking can add flexibility to rigid water rights, provide additional water to meet increased municipal and industrial demand, and promote greater collaboration amongst the water user community (Lewis, 2021).

There are also challenges to be considered with using a water banking concept. Due to high transaction costs, owners and consumers have been slow to evolve the water market in response to increasing water scarcity (Sanchari Ghosh, 2014). The persistence of historical institutions that control water allocation create strong barriers to the expansion of new water marketing connections. Therefore, strong governmental support of a water banking program would be beneficial to ease the creation of a fluidly moving program.

In the Carson valley, for example, water banking could be used as an application of managed aquifer recharge. Due to the nature of the semi-arid region, using water banking in conjunction with MAR can minimize evaporation losses and promote better regional water storage. A credit system could be developed where users can deposit water storage in years where immediate demand is low and withdraw from the system later. Subsurface storage is insulated from significant evaporation losses, which makes it possible for water to be accounted for more accurately (Gonzales, Dillon, Page, & Vanderzalm, 2020).

Developing a contract or statutory water bank would require the identification of a service area, legally enforceable agreements to protect water rights owners and public interest, and a structure of governing members to agree on how water transactions may take place. This structure could take place in many forms but would require regulatory time and effort to organize a system that makes sense for the Carson River watershed. One way to simplify transactions is to create term-limited agreements, so that ownership does not change for banked water rights. If MAR is used in a banking system, groundwater transactions should be distinguished from surface water transactions. The Utah Water Bank has utilized a combination of these strategies to create a pilot water bank that could be a potential source of information for watershed stakeholders to begin establishing a water banking structure. It is important to note that implementation of a water banking system in the Carson River watershed would need to conform to the requirements and limitations of the Alpine Decree.

Small scale, restricted types of water banking are currently used in the Carson River watershed. For example, water right owners may dedicate water rights to a municipal entity for use with an agreement that the private entity can use that water right in the future for land development. These agreements differ significantly from regional or statewide water banking structures that offer more opportunities for water rights owners and water users.

6.0 CONCEPTUAL ALTERNATIVES

Section 5.2 presented general concepts that could be used to enhance and add to existing water marketing strategies in the Carson River watershed. The following sections provide examples of how these general concepts could be implemented in the Carson River watershed. It should be noted that the following conceptual alternatives are not an exhaustive list of water marketing alternatives. Presented alternatives simply provide an outline of conceptual water infrastructure improvements that could be used to improve and enhance water marketing in the watershed. In addition, due to the cost and regulatory complexity of each of these alternatives, it is not likely that any alternative will be implemented in the near future. These alternatives should be viewed as long-term planning concepts that can be used to help guide current planning and policy discussions.

6.1 Conceptual Alternative 1 – Managed Aquifer Recharge Site 1

As discussed in Section 5.2.3, MAR and ASR are water storage methods that can be used to either replenish groundwater aquifers, or store water in more shallow parts of the aquifer, for later use. For conceptual purposes, a potential location where this method could be implemented near Stagecoach is shown in Figure 6.2. This site, located north of the Carson River (in Segment 7C as delineated by the Alpine Decree), is made up of Asolde-Patna complex soil (USDA-NRCS, 2020). This area was identified as a potential infiltration site because of the potential high transmissivity (infiltration) rate of the soil per the soil survey. The extended length of the site (2.5 miles) allows for variation and flexibility in constructing multiple infiltration basins where water can be spread, as the spreading location will affect the potential for aquifer storage or potential delayed return flows to the Carson River. Depending on the geologic conditions and gradient of the aquifer, two scenarios are possible. The first is that infiltrated water primarily returns as surface water flow to the Carson River downstream, later in the season. This scenario could be beneficial for when river flows naturally decrease late season. The second scenario is that the water infiltrates into the groundwater aquifer, augmenting natural aquifer recharge.

A general assumption is that the closer in horizontal distance to the river that water is infiltrated, the more likely that it is to return as river flow downstream, and the further away the water is infiltrated from the river, the more likely it is that groundwater recharge will occur. However, extensive percolation and infiltration testing would be required to confirm the soils transmissivity. Testing and modeling would also be necessary to understand the boundary conditions of the underground aquifer, including the direction of gradient that will ultimately decide where infiltrated water flows.

To capture surface water from the River, an induction well(s) would need to be installed along the river. Water right(s) would need to be acquired to allow for pumping surface water from the inductions well(s). A potential location for the induction well is shown in Figure 6.2. A pipeline (approx. 3.4 miles in length) would need to be constructed to transfer the water pumped from the induction well to the infiltration site. The infiltration site would consist of a series of constructed, earthen infiltration basins. At this potential location, it is assumed that the groundwater gradient flows downward from the infiltration site to the northeast. In this case, excess water would flow towards the Stagecoach area, in the Dayton Valley Hydrographic Unit. Based on this assumption, groundwater wells could be constructed (or existing wells could be used) near Stagecoach, to extract the water stored in the aquifer.

Although the constructed components represent a significant capital cost, this alternative could provide a more stable water source for the Stagecoach area and could become a water source for Silver Springs in the future, a water-deficit area (via a “Highway 50” regional pipeline being investigated by Lyon County Utilities).

MAR has been successfully used in semi-arid regions globally as a solution to overcome water scarcity. However, there are still also potential issues associated with MAR, such as clogging infiltration basins. High rates of sedimentation during infiltration periods can reduce the infiltration basin capacity over time. Consequently, the recharge rate in areas of MAR can decrease over time, which can lead to the abandonment of an aquifer recharge project. Proper maintenance, including routinely scraping top layers of the infiltration site, can extend the useful life of the infiltration basins (Mohammed Zaidi, 2020).

To implement this alternative an existing entity or new entity would need to be established to manage the new infrastructure, distribute stored water to participating entities, and manage the legal contracts and regulatory hurdles to distribute water potential across jurisdictional boundaries. This alternative could operate under a water banking framework to provide the broadest range of water marketing opportunities.

6.2 Conceptual Alternative 2 – Managed Aquifer Recharge Site 2

The Douglas County-Lake Tahoe Sewer Authority (DCLTSA) owns bentonite lined storage reservoirs northeast of Gardnerville near Johnson Lane, (in Segment 2 as delineated by the Alpine Decree). This is a potential managed aquifer recharge location using infiltration basins. In this alternative, some of the existing infrastructure at the DCLTSA reservoirs may be repurposed. Specifically, the DCLTSA reservoirs and part of the existing pipeline that currently runs from the DCLTSA treatment plant near Lake Tahoe to the DCLTSA reservoirs. The existing pipeline transfers treated effluent from the east side of the Lake Tahoe basin, over Kingsbury grade, and across Muller Lane, to discharge the treated effluent to various irrigation canals, and specifically, to the Bently reservoir, located near the unused DCLTSA reservoirs. In order not to mix treated effluent with excess canal or river water, a new pipeline would be constructed from nearby canals to the unused portion of the DCLTSA sewer line near the Bently Reservoir. Figure 6.3 shows a conceptual layout for this alternative.

There are numerous factors to be considered with an infiltration option at this location. It is important to note that these basins were historically used for treated wastewater disposal and storage and were constructed with a bentonite clay liner. Although this bentonite lining is old and likely desiccated, it would likely result in poor transmissivity for infiltration basins. In addition, there is potentially soil contaminants remaining from the wastewater disposal operation that may present hurdles to this alternative. To transform the reservoirs into infiltration basins, the remaining clay liner would need to be removed. Removal and disposal of the clay liner is not an extensive process, however, removal of more than the clay liner may be required to address potential contamination. In addition to rehabilitating and remediating the existing ponds, it would be necessary to construct a second pipeline that would extend from a canal or nearby water source (likely the Allerman Canal) to the discharge at the infiltration basins (piped conveyance as discussed in Section 5.2.2). For this alternative, an intake and pumping system would be constructed on the canal at the point of diversion to pump water into the infiltration basins. As the infiltration basins are at an elevation higher than the river, long-term pumping could incur significant energy costs. Like Alternative 1 (MAR Site 1), infiltration testing and other site testing would be required to better understand the site specific hydrogeologic conditions. However, it is

important to note that this is not likely to be an annual operation, but rather an intermittent diversion of water when flows are higher than normal. Extraction well(s) would be required to pump stored water from the aquifer. Depending on water quality and intended use, extracted water could be diverted into a community water system in the Carson Valley or could be pumped back into a canal for use downstream.

Due to numerous septic tanks in the area and a historical lack of a nitrogen removal process at DCLTSA, high groundwater nitrate concentrations are documented in the immediate area around the infiltration basins and in the nearby Johnson Lane area. Implementing a managed aquifer recharge system may result in further distribution of the nitrate contamination, potentially contaminating a larger portion of the aquifer. However, as the infiltration process continues over time, the finite amount of nitrate may become diluted, possibly creating a long-term benefit for the east side of the Carson Valley. Another potential partial solution to mitigate the presence of nitrate in the immediate vicinity of the DCLTSA ponds would be to remove the adjacent contaminated soil before allowing infiltration to begin. However, due to the significant area of soil that would require removal, this may be a less feasible and more costly option. Overall, the main beneficiary to this alternative is Douglas County, who would see potentially increased groundwater capacity and improved groundwater quality over time.

Another method of utilizing these existing ponds would be to refurbish the existing liner (or install a new liner) and use the basins as surface-water storage. Since the existing clay liners have been dry for several years, it is assumed that the existing clay liner should be removed. Additionally, it is important to note the potential for contaminants from the sites previous use as a treated wastewater storage facility. Pollutants and chemicals in the existing bentonite liner and soils may lead to the contamination of the water stored in the existing ponds. However, the benefit of this method would be an increase in surface storage and a more direct return of the water to the Carson River in times of low flow, when compared to recharging the aquifer. To utilize these basins as surface-water storage, a pump station may need to be installed at the basin itself to move the water from the basins back into the Allerman Canal. It would be determined the most economically feasible course of action is to utilize the same pipe that brought water to the basins to return the water back to the canal. A downside of the method of utilizing the basins to store surface-water is that it will increase water loss due to evaporation, when compared to Managed Aquifer Recharge. Additionally, this method will involve the relining of the basins and installation of another pump station which may bring the cost of this sub-alternative to an amount that makes this approach undesirable.

Using the existing DCLTSA ponds for infiltration or surface water storage would require surface water rights to pump water to the ponds. An existing entity or new entity would need to be established to manage the new infrastructure, distribute stored water to participating entities, and manage the legal contracts and regulatory hurdles to distribute water potentially across jurisdictional boundaries. This alternative could operate under a water banking framework to provide the broadest range of water marketing opportunities. This alternative could potentially be used to provide water to community water systems but given the potential for contamination may be more suitable to provide stored water for agricultural uses.

6.3 Conceptual Alternative 3 – Expanding Existing Reservoir Storage

Another potential concept is to expand existing reservoirs. Expanding existing reservoir storage has the potential to simplify means of reusing excess water, as there is already existing infrastructure that supports beneficial use of the stored water. Due to the limited storage in the

Carson River watershed, expansion of Lahontan Reservoir or Mud Lake are the two existing reservoirs considered for this alternative. Operation of expanded reservoirs may likely be able to operate under the same regulatory framework as current operations with additional water available for storage to potentially a larger base of water right owners. The following paragraphs discuss the feasibility and implications of expanding either reservoir.

Mud Lake: Mud Lake is a privately owned reservoir in the upper Carson Valley with a surface area of approximately 290 acres. The reservoir is filled with water from the West Carson River and Indian Creek. Water from the West Carson River is diverted to the Indian Creek drainage through a series of ditches and diversion structures. Discharge from Mud Lake flows back into the West Carson River. Figure 6.4 shows potential lake level contours that would result from increasing the height of the Mud Lake dam. Increasing the height of the dam would require construction of a second dam or embankment on the east side of the reservoir. Without a second dam in this location, increasing the water level would result in water spilling on the east side of the reservoir into Indian Creek and eventually draining into the East Carson River. Therefore, this option would not only require the expansion of the existing dam but would also require construction of a secondary dam to prevent overspill, incurring a significant construction cost. However, the upstream location of Mud Lake allows for many beneficiaries, as it would essentially act as increased water storage for all downstream users. Therefore, in high demand periods, the water could be used at lower points in the Carson River watershed.

Lahontan Reservoir: Lahontan Dam was constructed in 1905 as part of the Newlands Project. The dam is constructed on the Carson River creating a reservoir area of approximately 14,200 acres at full pool. In addition to damming the Carson River, the Truckee-Carson canal flows into Lahontan Reservoir near the dam. The Truckee-Carson Canal originates at Derby Dam on the Truckee River and transfers water from the Truckee watershed to the lower Carson River watershed.

Expansion of Lahontan Reservoir would require expansion of the existing dam but would also require construction of a secondary dam or embankment immediately to the east of the current dam (see Figure 6.4). In addition, reservoir expansion would also require modifications to US Highway 50 along the north shore of Lahontan Reservoir. The proximity of US Highway 50 to the proposed dam area creates challenges of pooled water approaching or extending beyond the current road grade. Expansion of Lahontan reservoir primarily benefits Churchill County residents, as the additional water storage would remain at the end of the watershed, for downstream users only.

Based on a preliminary review of historical data from the National Water Information System (US Geological Survey, 2020), between 1960 and 2019, Lahontan Reservoir has only filled to 295,500 AF (the spillway level) 808 days during the period (see Figure 6.1). In other words, Lahontan Reservoir fills to capacity only 4% of the time. There are several factors that influence this, including operational strategies and downstream water demands. But it may also indicate that the watershed does not have the capacity to routinely fill an enlarged Lahontan Reservoir.

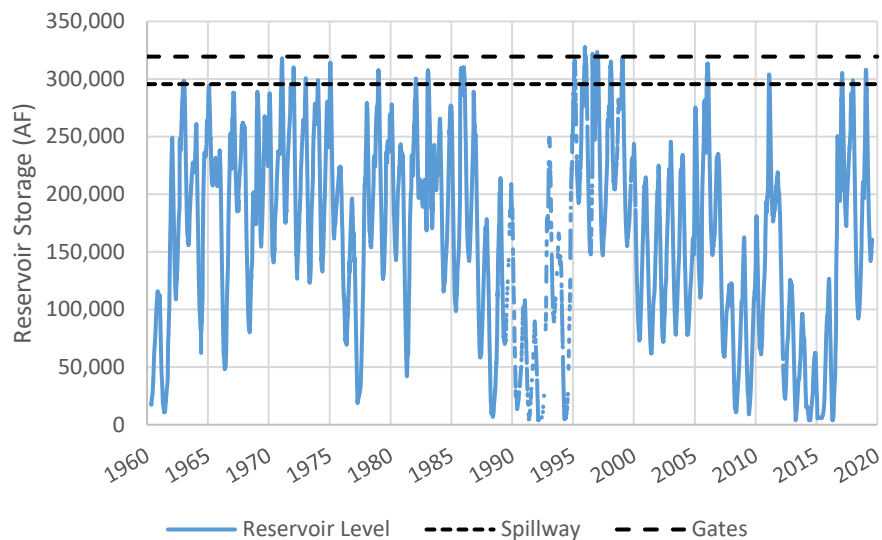


Figure 6.1 – Historical Lahontan Reservoir Storage

6.4 Conceptual Alternative 4 – Regional Potable Water Managed Aquifer Recharge

A proposed regional pipeline along Highway 50, currently in planning stages, will hydraulically connect public water systems from Dayton to Stagecoach (and eventually Silver Springs). This alternative would construct a well or series of wells adjacent to this regional pipeline. During periods of low demand and excess potable water availability, water from the regional pipeline could be injected into the constructed well(s) near Stagecoach. Then, during periods of high demand, and limited excess water, stored water could be pumped from these wells into the regional pipeline, for use in the regional water system. This would allow water purveyors, including Lyon County Utility District, flexibility in being able to allocate the additional resources to where it is most needed. For example, stored water could be used in Silver Springs (if the proposed pipeline is extended to Silver Springs), an area that is commonly affected by water deficit and drought. Figure 6.6 shows a conceptual layout of this alternative.

The capital cost of this alternative is likely significantly less than other alternatives due to the already proposed pipeline infrastructure that can be utilized. The remainder of capital cost would be for drilling and construction of groundwater injection/extraction wells in Stagecoach, and a possible extension of the regional pipeline to Silver Springs. Depending on the in-line pressure of the new pipeline, a combination of gravity flow and pumping may be utilized to move water throughout the system, potentially decreasing overall operation and pumping costs.

This alternative would inject potable water, potentially from multiple sources, into the aquifer in the Stagecoach area. There is a risk that this approach could contaminate potable water. Contamination could occur through various mechanisms. If the aquifer has existing water quality problems (i.e. arsenic, nitrate, etc.), injecting potable water in the aquifer may result in contamination of the potable water. Another potential water quality issue is mixing water with different water chemistry with the existing aquifer. Mixing these waters could lead to changes in pH or leaching of minerals that were stable prior to introducing different water chemistry. These issues can be complex and must be evaluated prior to implementation of this (or a similar) alternative.

Conceptually, there are multiple beneficiary stakeholders to this alternative. Residents of Dayton, Stagecoach, and potentially Silver Springs would benefit from potentially more robust water supplies. In addition, water suppliers could experience decreased source water demand during peak periods since downstream users may be able to rely on water that was stored locally during low demand periods.

This alternative may be able to utilize existing water rights held by community water systems or transferred to community water systems providing water to the regional water system. To implement this alternative an existing entity or new entity would need to be established to manage the new infrastructure, distribute stored water to participating entities, and manage the legal contracts and regulatory hurdles to distribute water potential across jurisdictional boundaries. This alternative could operate under a water banking framework to provide the broadest range of water marketing opportunities.

6.5 Conceptual Alternative 5 – Combined Flood Control and Groundwater Recharge

The Ruhenstroth subdivision in Douglas County occasionally experiences flooding on Smelter Creek, an ephemeral stream which flows through the subdivision. The stream is typically dry, with seasonal runoff and storm runoff occurring during thunderstorms. Although the stream rarely has sustained flows, when it does, short-duration, high-flow conditions can occur. Currently, the subdivision lacks a conveyance system to subdue flow and stabilize a path for flow, so significant storms can bring damage to homes, drainage structures, and roads within the floodplain. In addition to flooding risks, the local aquifer in Ruhenstroth has been experiencing declining static groundwater levels and nitrate contamination due to the concentration of septic tanks in the area.

An evaluation completed by RO Anderson, considered flood control alternatives and proposed a flood control detention basin just east of the Ruhenstroth subdivision. RO Anderson's evaluation proposed a flood control facility basin sized for a 100-year storm event that would equalize outflow so that it is contained within the existing channel (R.O. Anderson, 2016). The proposed infrastructure would include a dam control structure, consisting of an embankment, a low-level primary outlet, and an emergency spillway.

By significantly limiting discharge to the subdivision, a flood control structure or facility would protect downstream homes, and effectively remove the entire subdivision from the floodplain (R.O. Anderson, 2016). Conceptually, the excess flow captured in the reservoir structure could also be infiltrated within constructed basins or downstream in Smelter Creek to provide groundwater recharge and flushing to the overall groundwater aquifer. These same basins could also be used as infiltration basins. Excess surface water flows from nearby canals or the Carson River could be pumped into the stormwater detention basins in times of low surface water demand and during periods of low flood risk. For this alternative, it is assumed that induction wells would be constructed near the Carson River. When the infiltration/stormwater basins could not be used for infiltration (during flooding or seasonal runoff), the induction well(s) could potentially be used as a water source for nearby water systems, including the Gardnerville Ranchos GID. Use of infiltrated water would likely be limited to the domestic wells located in the Ruhenstroth area. It is important to note that storage availability for flood mitigation should always be maintained to ensure that the primary use of the control facility is to protect nearby homes from flood damage. Figure 6.7 shows the conceptual layout of the dam, induction well, and waterline.

The direct beneficiaries of this conceptual alternative include the residents of Ruhenstroth and Douglas County, by reducing the potential damage to public infrastructure and private property,

and providing overall environmental improvements to the condition and storage levels of the groundwater aquifer. However, there is limited regional benefit to downstream users. Douglas County has attempted to partially fund these improvements in the past through FEMA's Hazard Mitigation Grant Program. However, funding efforts were unsuccessful, in part due to the low benefit cost ratio for the project. In addition, constructing dams on Federally owned property is difficult and time consuming, likely leading to multiple years to obtain permits and easements.

It should be noted that this alternative has been developed primarily with the intent of providing flood mitigation to the Ruhensroth area. This community faces a significant flood threat during severe storms and their community would benefit greatly from the proposed flood control structures. This Alternative does not provide significant water storage to the Carson River watershed water-users and it does not help capture significant excess flow in the water system. However, if the construction of this Alternative could be covered under largely through FEMA the Ruhensroth community would benefit significantly from this flood mitigation. But Carson River consumers would not experience a great increase in water storage or in the capturing of excess river flow. As a result, this alternative should not be considered a viable alternative to provide strictly water marketing opportunities. However, this alternative does highlight the opportunities to tie water marketing concepts to non-water marketing concepts and proposals.

6.6 Conceptual Alternative 6 – New Reservoir Storage

The Bing Pit, situated at the corner of Bing Road and Kimmerling Road in Douglas County, is an active gravel pit that is being utilized by Bing Materials for construction material and fill extraction. The pit is reportedly nearing the end of its useable life and it is unknown what remediation is planned for the pit. With the expansive area and an already excavated pit, a potential solution would be to fill the pit with surface water from the West Fork of the Carson River.

This alternative would require constructing a pumped diversion on the West Fork of Carson River and a transmission pipeline to the existing gravel pit. It is anticipated that groundwater recharge would occur through infiltration/seepage. However, depending on the depth of the stored water in the pit, return flows to the West Fork of the Carson River could be via the constructed transmission pipeline either through gravity or pumping.

Reservoirs have the potential to increase surrounding property value to homes and can add aesthetic and recreational resources for nearby residents (Sarah Nicholls, 2018). Recreationally, the reservoir could potentially serve as a new neighborhood location for boating, fishing, swimming, walking, and attract other regional park-goers to the area. The Sparks Marina in nearby Washoe County came about in a similar way to the proposed reservoir, as it was originally a deep gravel pit that became filled during the 1997 Truckee River flood. Over time, the marina has become a community staple, providing a place for youth sports, community events, university clubs, and general day use. Set in a geographically similar area as the Sparks Marina, a recreational reservoir in the Gardnerville Ranchos could be a significant addition to the public parks and green spaces in Douglas County. However, as the surface area of the pit is approximately 100 acres, and water depth of the reservoir would be approximately 40 feet, almost one billion gallons of water will be required to maintain the potential new reservoir as a recreational area. In a region prone to drought and water deficit, it is possible that this excessive amount of water could be allocated more usefully elsewhere in the region.

A significant challenge associated with this alternative is that water to fill the proposed reservoir could potentially be better utilized elsewhere in the watershed and excess flows do not occur on

an annual basis, meaning there will be periods of time that no flow is available to direct to the reservoir. This will require increased effort by Douglas County to allocate enough resources to keep the reservoir full enough for recreational benefits. Alternatively, the reservoir could potentially be operated only in years of excess flow, but this would likely result in stagnant water that attracts vectors and becomes an unsightly area. Water stagnation is not a desirable outcome and could present serious problems with this alternative.

The possible layout of a waterline and pumping facility is shown in Figure 6.8. If a new reservoir is constructed for water storage, multiple communities downstream could benefit from increased regional water capacity through groundwater infiltration and return flows from the reservoir to the West Fork of the Carson River. However, the recreational benefits of the reservoir will likely be more beneficial to Carson Valley.

To implement this alternative an existing entity or new entity would need to be established to manage the new infrastructure, distribute stored water to participating entities, and manage the legal contracts and regulatory hurdles to distribute water potential across jurisdictional boundaries. This alternative could operate under a water banking framework to provide the broadest range of water marketing opportunities.

6.7 Alternative Summary Table

The overall advantages and disadvantages to each conceptual alternative are shown in Table 6.1. It is important to note that each of these alternatives have been explored for conceptual purpose only, and will require significant investigation, study, design, funding, construction, operations, and maintenance to successfully implement and operate. These strategies are intended to be used under current limitations of the Alpine Decree and State water laws and to be complementary resources in the Carson River watershed. Ideally, an appropriate water strategy will result in benefits to multiple communities in the region and lessen overall water stress on the region in drought years.

Table 6.1 – Summary of the presented conceptual alternatives

	Conceptual Alternative	Advantages	Disadvantages
1	Managed Aquifer Recharge Site 1	Increased regional water storage, increased groundwater storage, simple operation	Potential clogging of infiltration basins, potential water contamination, limited nearby water users, pumping costs
2	Managed Aquifer Recharge Site 2	Increased regional water storage, Potential use of existing infrastructure, Potential groundwater quality improvements	Not near water-deficit area, pumping costs, Known site contamination, Potential site remediation
3a	Expand Existing Reservoir Storage – Mud Lake	Increased regional water storage, Use of existing infrastructure, No pumping costs, Simple operation	Existing facilities privately owned, Extensive improvements required, High capital cost and design requirements

	Conceptual Alternative	Advantages	Disadvantages
3b	Expand Existing Reservoir Storage – Lahontan Reservoir	Increased local water storage	Limited beneficiaries, Extensive improvements required, Extremely high capital cost and design requirements, Limited ability to fill reservoir
4	Potable Water Managed Aquifer Recharge	Increased regional water storage, Increased groundwater storage, Simple operation, Potential use of proposed infrastructure, Low capital cost, Close proximity to water-deficit area	Potential water contamination
5	Combined Flood Control and Groundwater Recharge	Flood mitigation, Increased local groundwater storage, Potential for FEMA grants, Potential groundwater quality improvements, Potential for regional potable use	Limited groundwater storage beneficiaries
6	New Reservoir Storage	Increased surface water storage, Increased groundwater storage, Potential for recreational opportunities	Pumping costs, High operational requirements, High capital cost, Potential for water stagnation

6.8 Alternative Water Rights

Table 6.2 provides a summary of the volume of water rights that may be available from each river segment and the conceptual alternatives located in each river segment. The quantity of available water rights represents only water rights that are currently owned by a public entity (local, county, or state). Appendix E provides a detailed summary of water rights identified and summarized in Table 6.2.

Table 6.2 – Alternative Water Rights Summary

River Segment	Impacted Alternatives	Available Water Rights (AFA)	Available Water Rights by Category (AFA)	
1		154.6	Municipal	0.0
			Irrigation	0.0
			Decreed	154.6
			Other	0.0
2	2 & 5	618.73	Municipal	240.0
			Irrigation	0.0
			Decreed	348.83
			Other	29.9
3		219.0	Municipal	0.0
			Irrigation	219.0
			Decreed	0.0

River Segment	Impacted Alternatives	Available Water Rights (AFA)	Available Water Rights by Category (AFA)	
			Other	0.0
4		0.0	Municipal Irrigation Decreed Other	0.0 0.0 0.0 0.0
5	6	0.0	Municipal Irrigation Decreed Other	0.0 0.0 0.0 0.0
6		0.0	Municipal Irrigation Decreed Other	0.0 0.0 0.0 0.0
7	1 & 4	4,207.41	Municipal Irrigation Decreed Other	2,622.13 408.74 1,176.54 0.0
Total			Municipal Irrigation Decreed Other	2,862.13 627.74 2,486.07 29.9

6.9 Opinion of Probable Cost

Table 6.3 provides a summary Class 5 engineer’s opinion of project cost for each alternative. It is assumed that presented costs will be a one-time capital cost for the CWSD or other entities that may consider implementing these alternatives. Presented costs do not include costs for further project planning, pre-design site investigations, design, permitting, easements, and ongoing maintenance and operations.




Engineer’s opinions of probable costs are presented for each alternative. It should be noted that the presented opinions of probable costs are strictly conceptual in nature and may differ significantly from actual construction costs. These costs reflect the engineer’s impression of material, equipment, labor, etc. at the time of the estimate based on experience and judgement in applying presently available data. The engineer has no control over cost of labor, materials, equipment, competitive bidding practices, market conditions, tariffs, costs associated with funding packages, inflation, etc. Thus, the engineer cannot warrant that the actual project construction costs will not vary from the engineer’s opinion of probable cost. Generally, engineer’s concept/study level opinion of cost (Class 5 estimate) is -30% to +50% of actual costs.

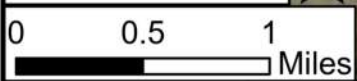
Each of the conceptual alternatives presented in this report require significant permitting, regulatory review, and have very high capital costs. Because of these issues, it is not likely that any of these alternatives will realistically be implemented in the near future. However, policy makers, water managers, etc. should consider these alternatives and other long-term planning concepts in their routine planning efforts to help adapt to changing conditions in the Carson River watershed.

Table 6.3 – Opinion of Probable Cost

Conceptual Alternative	Total Cost
Managed Aquifer Recharge Site 1	\$12,000,000
Managed Aquifer Recharge Site 2	\$12,900,000
Expand Existing Reservoir Storage – Mud Lake	\$11,600,000
Expand Existing Reservoir Storage – Lahontan Reservoir	\$59,000,000
Potable Water Managed Aquifer Recharge	\$6,800,000
Combined Flood Control and Groundwater Recharge	\$16,200,000
New Reservoir Storage	\$18,600,000



-  Infiltration Basin Area
-  Waterline
-  Proposed Induction Well



Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, Earthstar Geographics

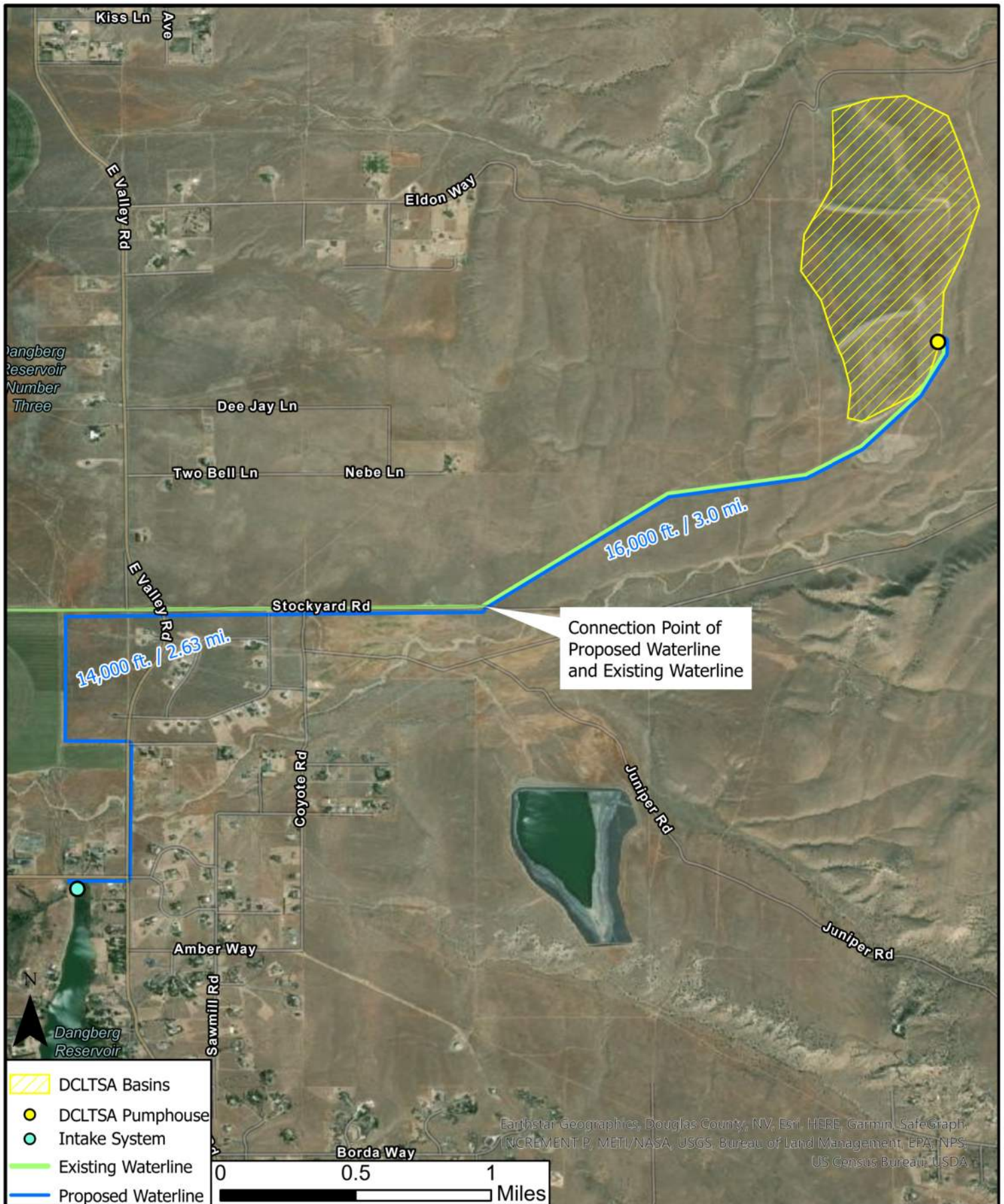
LUMOS & ASSOCIATES
 308 N. CURRY ST. SUITE 200
 CARSON CITY, NV 89703
 PH. (775) 883-7077 FAX (775) 883-7114

Carson Water Subconservancy District

**Conceptual Alternative 1
 Managed Aquifer Recharge near Stagecoach**

Stagecoach Lyon NV

Date:	2/17/2021
Scale:	1 : 48,000
Job No:	9834.000
Figure:	6.2



- DCLTSA Basins
- DCLTSA Pumphouse
- Intake System
- Existing Waterline
- Proposed Waterline

Earthstar Geographics, Douglas County, NV, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

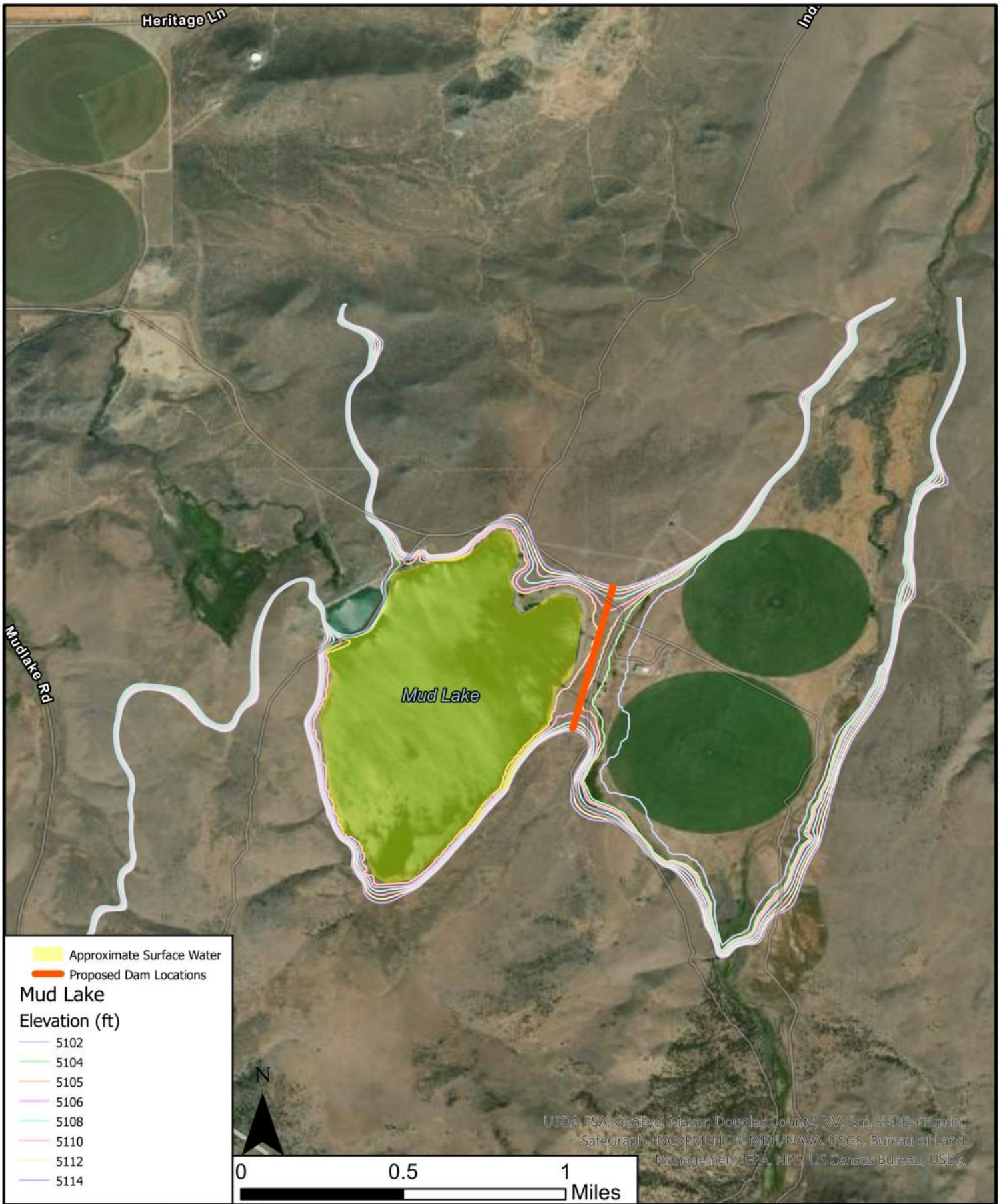
LUMOS
 & ASSOCIATES
 308 N. CURRY ST. SUITE 200
 CARSON CITY, NV 89703
 PH. (775) 883-7077 FAX (775) 883-7114

Carson Water Subconservancy District

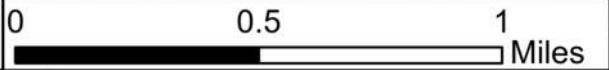
Conceptual Alternative 2
Managed Aquifer Recharge near Johnson Lane

Gardnerville Douglas NV

Date: 2/17/2021
 Scale: 1 : 30,000
 Job No: 9834.000
 Figure: 6.3



Approximate Surface Water
 Proposed Dam Locations
Mud Lake
 Elevation (ft)
 — 5102
 — 5104
 — 5105
 — 5106
 — 5108
 — 5110
 — 5112
 — 5114



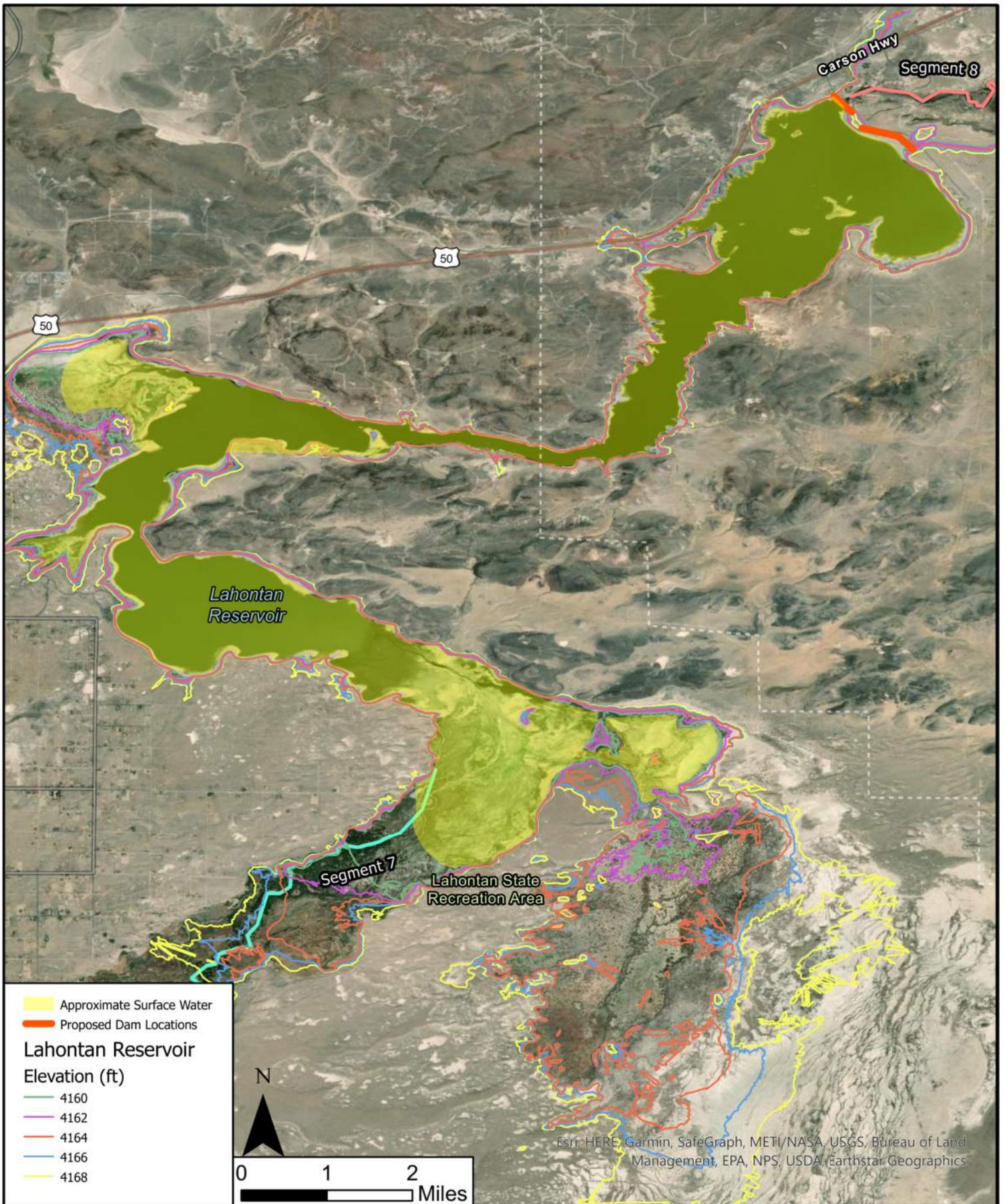

LUMOS
 & ASSOCIATES
 308 N. CURRY ST. SUITE 200
 CARSON CITY, NV 89703
 PH. (775) 883-7077 FAX (775) 883-7114

Carson Water Subconservancy District

Conceptual Alternative 3A
Expanding Existing Reservoir Storage

 Gardnerville Douglas NV

Date: 2/17/2021
 Scale: 1 : 25,000
 Job No: 9834.000
 Figure: 6.4



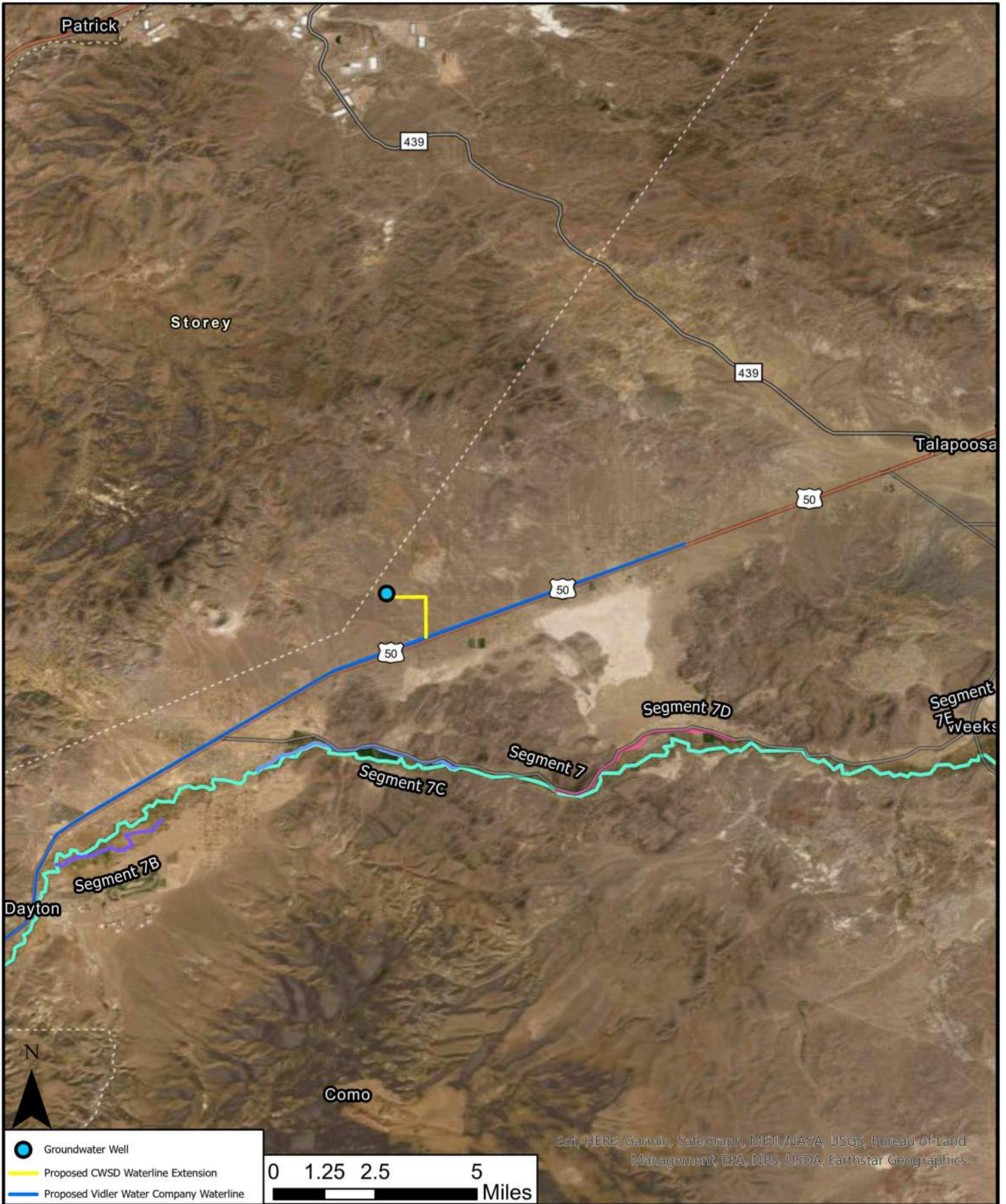
LUMOS
 & ASSOCIATES
 308 N. CURRY ST. SUITE 200
 CARSON CITY, NV 89703
 PH. (775) 883-7077 FAX (775) 883-7114

Carson Water Subconservancy District

Conceptual Alternative 3B
Expanding Existing Reservoir Storage

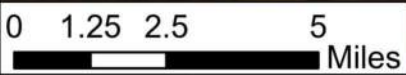
Silver Springs Lyon NV

Date: 2/17/2021
 Scale: 1 : 95,000
 Job No: 9834.000
 Figure: 6.5



Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, Earthstar Geographics

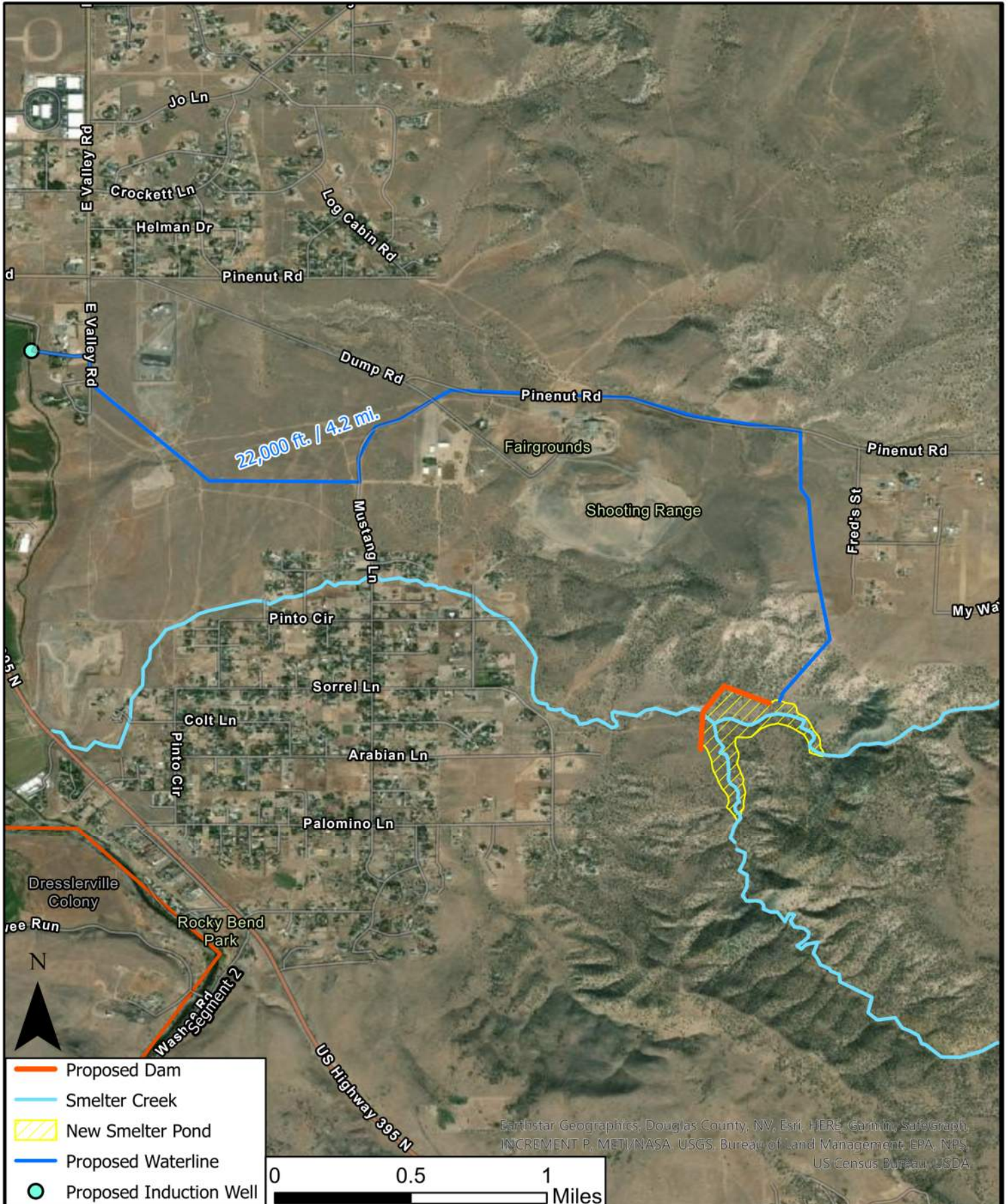
- Groundwater Well
- Proposed CWSD Waterline Extension
- Proposed Vidler Water Company Waterline




LUMOS
 & ASSOCIATES
 308 N. CURRY ST. SUITE 200
 CARSON CITY, NV 89703
 PH. (775) 883-7077 FAX (775) 883-7114

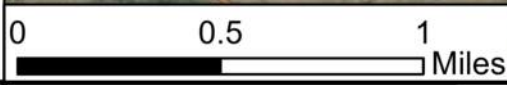
Carson Water Subconservancy District		
Conceptual Alternative 4 Regional Piped Water Access near Seneca Road		
Stagecoach	Lyon	NV

Date:	2/17/2021
Scale:	1 : 200,000
Job No:	9834.000
Figure:	6.6



- Proposed Dam
- Smelter Creek
- New Smelter Pond
- Proposed Waterline
- Proposed Induction Well

Earthstar Geographics, Douglas County, NV, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NAASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA



LUMOS
 & ASSOCIATES
 308 N. CURRY ST. SUITE 200
 CARSON CITY, NV 89703
 PH. (775) 883-7077 FAX (775) 883-7114





Carson Water Subconservancy District

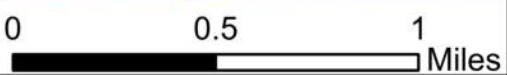
Conceptual Alternative 5
Combined Flood Control and Groundwater Recharge

Gardnerville Douglas NV

Date: 2/17/2021
 Scale: 1 : 48,000
 Job No: 9834.000
 Figure: 6.7



-  Proposed Induction Wells
-  Waterline
-  New Pond
-  Pump House



LUMOS
 & ASSOCIATES
 308 N. CURRY ST. SUITE 200
 CARSON CITY, NV 89703
 PH. (775) 883-7077 FAX (775) 883-7114

Carson Water Subconservancy District

Conceptual Alternative 6
New Reservoir Storage

Gardnerville Douglas NV

Date: 2/17/2021
 Scale: 1 : 30,000
 Job No: 9834.000
 Figure: 6.8

7.0 CONCLUSIONS

Through preparation of this report various data was collected, evaluated, and analyzed that provides insight into historical, current, and future water conditions and trends that the Carson River watershed has or may experience. Data indicates that the Carson River watershed is changing. Instream flows, precipitation, and temperatures are changing and becoming more variable over time. These changes are likely going to result in more water instability in the Carson River watershed. Along with increased water instability, population growth is anticipated, increasing the demand for water, putting more pressure on water resources, including the Carson River.

As a result of increasing climatic variability, water instability, and increasing water demand, existing and new water marketing strategies will become critical to maximize the use of limited water resources. Current water marketing strategies provide some flexibility to use water resources more efficiently. However, implementing new water marketing strategies will likely be required to balance increasingly unstable water supplies with increasing demands. Increasing water rights flexibility (i.e. through water banking) and increased water storage will likely be essential tools to find the appropriate balance.

The purpose of this report is to formally document the varied efforts, evaluations, concepts, and outreach to develop a water marketing exchange and transfer strategy for the Carson River watershed. The report presented numerous infrastructure concepts intended to extract, convey, and store water. These concepts were applied through the development of six different conceptual alternatives that could be used to store water for use during periods of increased demand. In addition, water banking, a largely administrative concept, was discussed. These water marketing alternatives were presented as concepts to illustrate the application of infrastructure used for water marketing. Implementation of any of these alternatives or concepts will require additional evaluation, study, permitting, etc. before specific water marketing improvements can advance beyond the planning phase of a project.

Given the imbalance between variable water supplies and increasing demand, Lumos & Associates recommends that additional modeling, study, and evaluations be pursued. Existing water models should be reevaluated and updated for the Carson River watershed so that MAR/ASR and surface water storage alternatives can be evaluated against current conditions. Based on modeling, hydrological/hydrogeological evaluations, and pedestrian surveys, in-field site investigations should be considered to determine that feasibility of improved water marketing infrastructure. Although none of the presented alternatives will likely not be implemented in the near future, further study and site investigations will help prepare water users for implementation of future infrastructure required to adapt to changing conditions in the Carson River watershed.

Administrative and political solutions should be pursued in parallel with evaluating physical water marketing infrastructure improvements. These administrative and political activities should evaluate the funding, operation, maintenance, and oversight of potential infrastructure improvements. In addition, water banking concepts should be investigated to ensure that the proper legal framework exists to implement and support new water marketing infrastructure.

Water users could implement components of the proposed alternatives in the near future that could be adapted to water marketing concepts in the future. For example, induction wells that are constructed in the near term could potentially be used with a future managed aquifer recharge

project. In addition, regional pipelines could provide more efficient water use. Water users should consider the long-term applications of near-term improvements during project planning.

It is important to note that implementation of any significant administrative program and/or infrastructure project will be a significant undertaking. As such, it is important to identify and engage with interested parties and stakeholders. Stakeholder support and buy-in to any proposed changes or improvements will be necessary for the successful implementation of any water marketing strategy.

References

- California Department of Water Resources. (2016, December 22). *California's Groundwater: Bulletin 118 Iterim Update 2016*. Unk: Author. Retrieved from California Department of Water Resources.
- California Department of Water Resources. (2020). *SGMA Groundwater Management*. Retrieved from California Department of Water Resources: water.ca.gov/Programs/Groundwater-Management/SGMA-Groundwater-Management
- California State Water Resources Board. (n.d.). *Drinking Water Watch*. Retrieved from California State Water Resource Board: <https://sdwis.waterboards.ca.gov/PDWW/index.jsp>
- California States Water Resources Board. (n.d.). *Drinking Water Watch*. Retrieved from California State Water Resource Board: <https://sdwis.waterboards.ca.gov/PDWW/index.jsp>
- California Water Boards. (2019). *Water rights - frequently asked questions*. Retrieved from California Water Boards: www.waterboards.ca.gov/waterrights/board_info/faqs.html#toc178761088
- Carson City Public Works Department. (2018). *Carson City Water Resources Report*. Carson City: Author.
- Census of Agriculture. (2019). *2018 Irrigation and Water Management Survey*.
- Gonzales, D., Dillon, P., Page, D., & Vanderzalm, J. (2020). The Potential for Water Banking in Australia's Murray-Darling Basin to Increase Drought Resilience. *Water MDPI*.
- Hardcastle, J. (2019). *Nevada County Population Projections 2019 to 2038*. Reno: Nevada Department of Taxation.
- King, J. (2018, January 30). *Nevada Water Law Current Issues*. Retrieved from Carson Water Subconservancy District: www.cwsd.org/wp-content/uploads/2018/05/2018-11-Water-Summit-KING.pdf
- Lewis, E. E. (2021, January). *Water Banking Pilot Program Overview*. Retrieved from Utah Water Banking: utahwaterbank.org
- Maurer, D. K. (2011). *Geologic Framework and Hydrogeology of the Middle Carson River Basin, Eagle, Dayton, and Churchill Valleys, West Central Nevada*. US Geological Survey's Scientific Investigations Report 2011-5065, 62 p.
- Mohammed Zaidi, M.-D. A. (2020). Assessment of clogging of managed aquifer recharge in a semi-arid region. *Science of the Total Environment*.
- Naranjo, R. C., Welborn, T. L., & Rosen, M. R. (2013). *The Distribution and Modeling of Nitrate Transport in the Carson Valley Alluvial Aquifer, Douglas County, Nevada*. US Geological Survey Scientific Investigations Report 2013-5136, 51 p.

- Nevada Division of Environmental Protection. (n.d.). *Drinking Water Watch*. Retrieved from Nevada Division of Environmental Protection: <https://ndwis.ndep.nv.gov/DWW/index.jsp>
- Nevada Division of Water Planning. (1999). *Nevada State Water Plan*. Carson City, NV: Author.
- Nevada Division of Water Resources. (2017, March). *Designated Groundwater Basins of Nevada*. Retrieved from http://water.nv.gov/mapping/maps/designated_basinmap.pdf
- Nevada Division of Water Resources. (2020, February 25). *Mapping and Data*. Retrieved from Nevada Division of Water Resources: water.nv.gov/mapping.aspx
- Niswonger, R. G., Morway, E. D., Triana, E., & Huntington, J. L. (2017). Managed aquifer recharge through off-season irrigation in agricultural regions. *Water Resources Research*(53), 6970-6992, doi:10.1002/2017WR020458.
- Prism Climate Group. (2020). *Northwest Alliance for Computational Science and Engineering*. Retrieved from Prism Climate Group: <https://prism.oregonstate.edu/explorer/>
- Pumphrey, H. L. (1955). *Water-Power Resources in the Upper Carson River Basin California-Nevada*. Washington: United States Government Printing Office.
- R.O. Anderson. (2016). *Smelter Creek Regional Flood Control Project*. Minden, NV: Author.
- Sanchari Ghosh, K. M. (2014). Water banking, conjunctive administration, and drought: The interaction of water markets and prior appropriation in southeastern Idaho. *Water Resources Research*.
- Sarah Nicholls, J. L. (2018). The contribution of scenic views of, and proximity to, lakes and reservoirs to property values. *Lakes and Reservoirs*.
- Shaw Engineering. (2019). *Churchill County Water and Wastewater Utilities Master Plan*. Reno, NV: Author.
- State of Nevada Division of Water Resources. (2020, March 17). *Mapping and Data*. Retrieved from State of Nevada Division of Water Resources: water.nv.gov/mapping.aspx
- The United States of America Vs. Alpine Land & Reservoir Company, a corporation, et al., D-183 BRT (United States District Court for the District of Nevada December 1980).
- U.S. Department of Agriculture. (2019). *State Agriculture Overview*.
- US Department of the Interior, US Geological Survey. (2014). *Estimated Use of Water in the United States in 2010*. Author.
- US Environmental Protection Agency. (2017, March 8). *Information about Public Water Systems*. Retrieved from Environmental Protection Agency: <https://www.epa.gov/dwreginfo/information-about-public-water-systems>
- US Environmental Protection Agency. (2018, November 14). *Aquifer Recharge and Aquifer Storage and Recovery*. Retrieved from EPA: <https://www.epa.gov/uic/aquifer-recharge-and-aquifer-storage-and-recovery>

US Geological Survey. (2020, January 8). *National Water Information System*. Retrieved from
USGS: waterdata.usgs.gov/nv/nwis/rt

US Geological Survey. (Unk). *USGS*. Retrieved from The National Map - Data Delivery:
www.usgs.gov/core-science-systems/ngp/tnm-delivery/gis-data-download

USDA-NRCS. (2020). *Web Soil Survey*. Retrieved from US Department of Agriculture National
Resources Conservation Service : websoilsurvey.sc.egov.usda.gov

Wathen, D., Larrouy, J., & Callahan, D. (2012, January 25). The Federal Water Master's
Administration of the Carson River: A Timeline of Significant Events as well as a
Comparison Between the Carson and Truckee River Decrees.

Appendix A Carson River Surface Water Rights

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qu	POD Qtr	POD Sec	POD Town	POD Rng	POD County	POD River Segment	Acres	AEA	Use	Source Description
101	McKnight, Jerry J.	42800E	PER	47623A01	7/2/1902	SW	SE	33	12N	20E	CH	8	76.832	---	DEC	Carson River
101	Goddeke Family Trust, Address (16.492%)	43848E	DEC	---	1/1/1906	SE	SE	24	12N	20E	DO	2	4.09	---	DEC	East Fork Carson River
101	Goddeke, Henry R. (14.61%)	25100R	DEC	---	1/1/1906	SE	SE	23	12N	20E	DO	2	3.63	---	DEC	East Fork Carson River
101	Buckingham, Agnes S.; Buckingham, Emil H.	23610CR	DEC	---	1/1/1908	SE	NE	21	20N	29E	CH	8	130.000	---	DEC	Carson River
101	Wolf, Howard W.	25810CR	DEC	---	1/1/1908	SE	NE	21	20N	29E	CH	8	250.000	---	DEC	Carson River
101	USPWS	43931E	VST	---	3/29/1969	NE	SW	4	12N	20E	CH	8	16,262.41f	---	DEC	Carson River
101	Kent Land & Livestock Company	3100037E	VST	---	1/1/1862	SW	SW	38	20N	29E	CH	8	840.000	---	DEC	Carson River
101	TUD	39100R	DEC	---	1/1/1876	SE	NE	21	20N	29E	CH	8	600.000	---	DEC	Carson River
101	Miss, John A.	310053E	VST	---	1/1/1890	SE	NE	21	20N	29E	CH	8	200.000	---	DEC	OH River (Carson Riv.)
101	Smart, Substair B.	29100CR	DEC	---	1/1/1864	SE	NE	21	20N	29E	CH	8	200.000	---	DEC	Carson River
101	Wolf, Howard W.	29210CR	DEC	---	1/1/1864	SE	NE	21	20N	29E	CH	8	115.000	---	DEC	Carson River
101	Wolf, Howard W.	310183R	VST	---	1/1/1868	NE	NE	16	20N	29E	CH	8	365.000	---	DEC	OH River (Carson Riv.)
101	Smart, Substair B.	29110CR	DEC	---	1/1/1869	NE	NE	16	20N	29E	CH	8	200.000	---	DEC	Carson River
102	United States Of America	46040E	44530E	28810CR	09/28/1986	NW	SE	32	17N	24E	LY	7	40.000	---	DEC	Carson River
102	State Of Nevada	40312A01	17660R	78810CR	1/1/1861	NW	SE	32	17N	24E	LY	7	473.35	---	DEC	Carson River
102	W. Buckland, LLC	46274E	44130E	78510CR	1/1/1861	NW	SE	32	17N	24E	LY	7	81.000	---	DEC	Carson River
102	Nevada-Parks Division	7810CR	DEC	---	1/1/1861	NW	SE	6	17N	24E	LY	7	47.000	---	DEC	Carson River
102	NV-Reno Industrial, LLC	28410CR	DEC	---	1/1/1863	SE	SW	35	17N	24E	LY	7	66.000	---	DEC	Carson River
102	State of Nevada	28410CR	DEC	---	1/1/1863	SE	SW	35	17N	24E	LY	7	290.000	---	DEC	Carson River
102	WS-Buckland, LLC	28410CR	DEC	---	1/1/1863	SE	SW	35	17N	24E	LY	7	8.000	---	DEC	Carson River
102	WS-Buckland, LLC	49275E	13160	28610CR	1/1/1864	NW	SE	32	17N	24E	LY	7	109.000	---	DEC	Carson River
102	United States Of America	50274E	31104	28710CR	1/1/1864	NW	SE	32	17N	24E	LY	7	183.000	---	DEC	Carson River
102	Amerongen, Peggy	28810CR	DEC	---	1/1/1864	NW	SE	32	17N	24E	LY	7	74.000	---	DEC	Carson River
102	Nevada-Parks Division	29110CR	DEC	---	1/1/1864	NW	SE	32	17N	24E	LY	7	593.000	---	DEC	Carson River
102	Amerongen, Peggy	29110CR	DEC	---	1/1/1864	NW	SE	6	17N	24E	LY	7	54.000	---	DEC	Carson River
102	Nevada-Parks Division	29110CR	DEC	---	1/1/1864	NW	SE	6	17N	24E	LY	7	290.000	---	DEC	Carson River
102	NV-Reno Industrial, LLC	28410CR	DEC	---	1/1/1874	NW	SE	32	17N	24E	LY	7	81.000	---	DEC	Carson River
102	NV-Reno Industrial, LLC	28410CR	DEC	---	1/1/1874	NW	SE	32	17N	24E	LY	7	188.000	---	DEC	Carson River
103	Gregory, Mark And Sandra	6153A	PER	98403A 76003R	1/1/1900	NE	SW	35	15N	20E	CC	7	1.25	---	IRR	Carson River
103	Jack Fornschieber And Charlene Fornschieber	72855E	PER	98403A 76003R	1/1/1900	NW	NE	2	14N	20E	CC	7	8.78	---	DEC	Carson River
103	Carson City	28610CR	DEC	---	1/1/1900	NE	SW	35	15N	20E	CC	7	30.76	---	DEC	Carson River
103	Riect 1960 Family Limited P.	29010CR	DEC	---	1/1/1900	NE	SW	26	16N	21E	LY	7	69.500	---	DEC	Carson River
103	Minor Ranch, LLC	76410CR	DEC	---	1/1/1900	SE	NW	13	16N	21E	LY	7	64.300	---	DEC	Carson River
103	Carson Water Subconservancy District	806641	R/A	81410CR	1/1/1900	NE	SW	14	15N	20E	CC	7	---	---	QM	West Fork Carson River
103	Carson Water Subconservancy District	806641	R/A	81410CR	1/1/1900	NE	SW	14	15N	20E	CC	7	---	---	QM	West Fork Carson River
103	Aspen Creek, LLC	77510CR	DEC	---	1/1/1901	SE	SE	33	17N	22E	LY	7	30.000	---	DEC	Carson River
103	LD Leds, LLC	60404	12406E	75810CR	1/1/1902	SE	SE	33	17N	22E	LY	7	40.432	---	DEC	Carson River
103	Lakemont Legado, LLC	69151	17402E	75810CR	1/1/1902	SE	SE	33	17N	22E	LY	7	4.88	---	DEC	Carson River
103	Allam, Inc.	71877E	DEC	---	1/1/1902	SE	SE	14	16N	21E	LY	7	10.000	---	DEC	Carson River
103	Minor Ranch, LLC	26510CR	DEC	---	1/1/1902	SE	NW	13	16N	21E	LY	7	8.500	---	DEC	Carson River
103	Hirsh, David E. and Karen I.	71877E	12406E	75810CR	1/1/1902	SE	SE	14	16N	21E	LY	7	7.000	---	DEC	Carson River
103	Golden Sierra Investments, LLC	88472E	REA	75010CR	1/1/1903	SE	SE	14	16N	21E	LY	7	---	---	IRR	Upper Cardelli Ditch
103	Der XY Properties, LLC	88472E	REA	75010CR	1/1/1903	SE	SE	14	16N	21E	LY	7	---	---	IRR	Upper Cardelli Ditch
103	Siliter, Kathleen	88472E	R/A	75010CR	1/1/1903	SE	SE	14	16N	21E	LY	7	---	---	IRR	Upper Cardelli Ditch
103	Golden Sierra Investments, LLC	25010CR	DEC	---	1/1/1903	SE	SE	14	16N	21E	LY	7	12.700	---	DEC	Carson River
103	Sharon Park Development, Inc.	25010CR	DEC	---	1/1/1903	SE	SE	14	16N	21E	LY	7	12.700	---	DEC	Carson River
103	Golden Sierra Investments, LLC	25010CR	DEC	---	1/1/1903	SE	SE	14	16N	21E	LY	7	5.400	---	DEC	Carson River
103	Siliter, Kathleen	25010CR	DEC	---	1/1/1903	SE	SE	14	16N	21E	LY	7	1.800	---	DEC	Carson River
103	Casey, Michael A. and Claudia C.	82924E	REA	multiple claims	1/1/1904	SE	NW	13	16N	21E	LY	7	---	---	MUN	Carson River
103	Dr. D. S. & Bertha M. Merchant	65010CR	DEC	---	1/1/1904	NE	SW	35	15N	20E	CC	7	8.000	---	DEC	Carson River
103	Dr. Runtz, Et Al	74710CR	DEC	---	1/1/1904	SE	SE	23	16N	21E	LY	7	5.600	---	DEC	Carson River
103	Carson City	30592E	15041	48576, 35778, 338790, 69903R	1/1/1905	SE	SW	14	15N	20E	CC	7	---	180.000	MUN	Cc-Well 41B, Induction Well Reirill
103	Davton Valley Gf. and Lyon County	43801	PER	72510CR	1/1/1905	NW	NW	34	16N	21E	LY	7	198.52	---	IRR	Carson River
103	Onliet Ranch, Inc.	24310CR	DEC	---	1/1/1905	SE	SE	23	16N	21E	LY	7	6.000	---	DEC	Carson River
103	Onliet Ranch, Inc.	24410CR	DEC	---	1/1/1905	SE	NW	13	16N	21E	LY	7	110.12	---	DEC	Carson River
103	Bond Land & Sleep Company	25210CR	DEC	---	1/1/1905	SE	SE	14	16N	21E	LY	7	62.500	---	DEC	Carson River
103	Allam, Inc.	71710CR	DEC	---	1/1/1905	SE	SE	14	16N	21E	LY	7	6.10	---	DEC	Carson River
103	Minor Ranch, LLC	26510CR	DEC	---	1/1/1905	SE	NW	13	16N	21E	LY	7	22.50	---	DEC	Carson River
103	Allam, Inc.	26810CR	DEC	---	1/1/1905	SE	NE	5	16N	22E	LY	7	41.00	---	DEC	Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
103	Hodges Transportation, Inc.	2860DKR	DEC	---	1/1/1905	NE	SE	4	16N	24E	LY	7	20.16	---	DEC	Carson River
103	SMR Development, LLC	2161DKR	DEC	---	1/1/1906	NE	NE	4	15N	21E	LY	7	35.60	---	DEC	Carson River
103	SMR Development, LLC	2283DKR	DEC	---	1/1/1906	NW	NE	34	16N	20E	LY	7	21.40	---	DEC	Carson River
103	Ulrich, Amelia, Ulrich, Joseph	6993DKR	DEC	---	1/1/1910	NE	SW	35	15N	20E	CC	7	17.89	---	DEC	Carson River
103	Jimmie Pete Jarard Childrens Trust, Kae Jarard Trust	82626	PER	691DKR	1/1/1911	NE	NE	4	16N	22E	LY	7	174.15 afa	---	MUN	Carson River, Induction Well
103	Jimmie Pete Jarard Childrens Trust, Kae Jarard Trust	82628	PER	692DKR	1/1/1911	NE	NE	4	16N	22E	LY	7	127.5 afa	---	MUN	Carson River
103	Jimmie Pete Jarard Childrens Trust, Kae Jarard Trust	82629	PER	82777, 792DKR	1/1/1911	NE	NE	4	16N	22E	LY	7	125 afa	---	MUN	Carson River
103	Jimmie Pete Jarard Childrens Trust, Kae Jarard Trust	82630	PER	82779, 792DKR	1/1/1911	NE	NE	4	16N	22E	LY	7	12.8 afa	---	MUN	Carson River
103	Merchant, Bertha, M., Merchant, Dr F.D.S.	82631	DEC	---	1/1/1911	NE	SW	35	15N	20E	CC	7	63.60	---	DEC	Carson River
103	Jimmie Pete Jarard Childrens Trust, Kae Jarard Trust	82632	PER	82959, 696DKR	1/1/1911	NE	SW	35	15N	20E	CC	7	81.98	---	DEC	Carson River
103	Ulrich, Amelia, Ulrich, Joseph F.D.S.	6993DKR	DEC	---	1/1/1914	NE	SW	35	15N	20E	CC	7	46.34	---	DEC	Carson River
103	Merchant, Bertha, M., Merchant, Dr F.D.S.	207DKR	DEC	---	1/1/1915	NW	NE	35	15N	20E	CC	7	9.33	---	DEC	Carson River
103	Ellisandoberry, John	705DKR	DEC	---	1/1/1915	NW	NE	35	15N	20E	CC	7	16.72	---	DEC	Carson River
103	De Runtz, Etal	2883DKR	DEC	---	1/1/1915	SE	SE	23	16N	21E	LY	7	15.00	---	DEC	Carson River
103	Hudley Ranch, LLC	82633	RFA	multiple claims	1/1/1916	NW	SW	13	16N	21E	LY	7	---	---	MUN	Carson River
103	De Runtz, Etal	280DKR	DEC	---	1/1/1916	SE	SE	23	16N	21E	LY	7	44.84	---	DEC	Carson River
103	SMR Development, LLC	217DKR	DEC	---	1/1/1918	NE	NE	4	15N	21E	LY	7	14.00	---	DEC	Carson River
103	Lyon County	21654	PER	68193, 18222, 745DKR, 747DKR, 746DKR	11/13/2001	NW	SW	4	16N	22E	LY	7	418.7 afa	---	MUN	Dayton Well #20
103	Lyon County	21657	PER	68416, 754DKR	3/22/2002	NW	SW	4	16N	22E	LY	7	199.35 afa	---	MUN	Dayton Well #20
103	Lyon County	21658	PER	69255, 849DKR	11/21/2003	NW	SW	4	16N	22E	LY	7	71.15 afa	---	MUN	Dayton Well #20
103	Lyon County	21659	PER	69261, 253DKR	11/21/2003	NW	SW	4	16N	22E	LY	7	126 afa	---	MUN	Dayton Well #20
103	Lyon County	21660	PER	69262, 253DKR	11/21/2003	NW	SW	4	16N	22E	LY	7	106.75 afa	---	MUN	Dayton Well #20
103	Atlas Development I, LLC & Lyon County	21662	PER	725DKR	12/16/2003	NW	SW	4	16N	22E	LY	7	29.40	---	MUN	Dayton Well #20
103	Atlas Development I, LLC & Lyon County	21663	PER	724DKR	12/16/2003	NW	SW	4	16N	22E	LY	7	72.12	---	MUN	Dayton Well #20
103	Lyon County	21668	PER	724DKR	12/16/2003	NW	SW	4	16N	22E	LY	7	103.62	---	MUN	Dayton Well #20
103	Atlas Development I, LLC & Lyon County	21669	PER	723DKR	12/16/2003	NW	SW	4	16N	22E	LY	7	22.85	---	MUN	Dayton Well #20
103	Hardy, David E. and Karen L.	23632	SLIL	49869, 141DKR, 142DKR	10/18/2005	SE	SE	14	16N	21E	LY	7	6.00	---	IRR	Carson River
103	Vigler Water Company, Inc.	82680	PER	180DKR	10/9/2017	NE	SW	35	15N	20E	CC	7	354.30	---	IRR	Carson River
103	Consolidated Municipality of Carson City	51868	LSLIL	704DKR	1/1/1849	SE	SW	14	15N	20E	CC	7	267 afa	---	MUN	CC Well 41B, Induction Well Redrill
103	Consolidated Municipality of Carson City	51892	LSLIL	704DKR	1/1/1849	NE	SW	14	15N	20E	CC	7	138 afa	---	MUN	CC Well 25B, Induction Well
103	Consolidated Municipality of Carson City	51901	LSLIL	705DKR	1/1/1849	SE	SW	14	15N	20E	CC	7	127.83 afa	---	MUN	CC Well 41B, Induction Well Redrill
103	Consolidated Municipality of Carson City	51901	LSLIL	705DKR	1/1/1849	NE	SW	14	15N	20E	CC	7	63.92 afa	---	MUN	CC Well 25B, Induction Well
103	Consolidated Municipality of Carson City	51922	LSLIL	51643, 43415, 704DKR	1/1/1849	SE	SW	14	15N	20E	CC	7	27 afa	---	MUN	CC Well 41B, Induction Well Redrill
103	Consolidated Municipality of Carson City	51923	LSLIL	51643, 43415, 704DKR	1/1/1849	NE	SW	14	15N	20E	CC	7	13.5 afa	---	MUN	CC Well 25B, Induction Well
103	Charles B. Durling	27269	PER	704DKR	1/1/1849	SW	NE	11	15N	40E	CC	7	17.40	---	IRR	Carson River
103	SMR Development, LLC	211DKR	DEC	---	1/1/1859	NW	NE	34	16N	21E	LY	7	45.00	---	DEC	Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
103	Carson City	4164	PER	694DCR	1/1/1860	NE	NW	26	15N	20E	CC	7	1.11	---	DEC	Carson River Park Induction Well
103	Merchant, Bertha M.; Merchant, Dr. E. D. S.	4864DCR	DEC	---	1/1/1860	NE	SW	35	15N	20E	CC	7	85.00	---	DEC	Carson River
103	Carson City	694DCR	DEC	---	1/1/1860	NE	SW	35	15N	20E	CC	7	4.98	---	DEC	Carson River
103	Anderson, Donald And Willie	694DCR	DEC	---	1/1/1860	NE	SW	35	15N	20E	CC	7	4.98	---	DEC	Carson River
103	Anderson, Ira and Jeanne	694DCR	DEC	---	1/1/1860	NE	SW	35	15N	20E	CC	7	4.98	---	DEC	Carson River
103	Hatfield, R.M.	3404DCR	DEC	---	1/1/1860	SW	SE	23	16N	21E	LY	7	2.60	---	DEC	Carson River
103	Carson City	4434	DEC	795DCR	1/1/1861	SE	SW	14	15N	20E	CC	7	---	62.5 afa	MUN	Cs Well 41B, Induction Well Redrill
103	Hedger Transportation, Inc.	2704DCR	DEC	---	1/1/1861	NE	SE	4	16N	21E	LY	7	122.00	---	DEC	Carson River
103	Hardy, David And Karen Family Trust, Dated October 5, 2012	4544	DEC	745DCR	1/1/1862	NE	SE	14	16N	21E	LY	7	2.00	---	IRR	Carson River
103	IBI Properties, LLC	4544	DEC	---	1/1/1862	NE	SE	14	16N	21E	LY	7	2.22	---	IRR	Carson River
103	Carson City	353Z	PER	35869, 697DCR	1/1/1862	NE	SW	14	15N	20E	CC	7	---	105.63 afa	MUN	Cs Well 29B, Induction Well
103	Ried 1996 Family Limited P.	292DCR	DEC	---	1/1/1862	NE	SW	26	16N	21E	LY	7	65.00	---	DEC	Carson River
103	Ried 1996 Family Limited P.	294DCR	DEC	---	1/1/1862	NE	SW	26	16N	21E	LY	7	57.00	---	DEC	Carson River
103	De Rantz, John	2404DCR	DEC	---	1/1/1863	SE	SE	23	16N	21E	LY	7	75.00	---	DEC	Carson River
103	Quilici Ranch, Inc.	2404DCR	DEC	---	1/1/1863	SE	SE	23	16N	21E	LY	7	87.00	---	DEC	Carson River
103	Aspen Creek, LLC	2724DCR	DEC	---	1/1/1863	SE	SE	33	17N	22E	LY	7	50.92	---	DEC	Carson River
103	Atlas Development II, LLC	2724DCR	DEC	---	1/1/1863	SE	SE	33	17N	22E	LY	7	109.08	---	DEC	Carson River
103	Golden Sierra Investments, LLC	2724DCR	DEC	---	1/1/1863	SE	SE	33	17N	22E	LY	7	2.00	---	DEC	Carson River
103	Griswold, David E.	2484DCR	DEC	---	1/1/1864	SE	SE	12	16N	21E	LY	7	24.00	---	DEC	Carson River
103	Slater, Kathleen Ruth	2484DCR	DEC	---	1/1/1864	SE	SE	12	16N	21E	LY	7	12.00	---	DEC	Carson River
103	Minor Ranch, LLC	2494DCR	DEC	---	1/1/1864	SE	NW	13	16N	21E	LY	7	110.00	---	DEC	Carson River
103	Hedger Transportation, Inc.	2767DCR	DEC	---	1/1/1864	NE	SE	4	16N	21E	LY	7	75.00	---	DEC	Carson River
103	John N. Winters And Kathleen M. Winters, As Co-Trustees Under The John Winters Family Trust Agreement (Created 11/18/2009)	2710	DEC	718DCR	1/1/1865	NE	NE	4	15N	21E	LY	7	3.54	---	IRR	Carson River
103	SHR Development, LLC	2710	DEC	718DCR	1/1/1865	NE	NE	4	15N	21E	LY	7	33.56	---	IRR	Carson River
103	Ward, Robert J. Properties, Inc.	2710	DEC	718DCR	1/1/1865	NE	NE	4	15N	21E	LY	7	3.49	---	IRR	Carson River
103	Merchant, Bertha, M.; Merchant, Dr. E.D.S.	4874DCR	DEC	---	1/1/1870	NE	SW	35	15N	20E	CC	7	15.00	---	DEC	Carson River
103	Minor Ranch, LLC	2494DCR	DEC	---	1/1/1871	SE	NW	13	16N	21E	LY	7	23.50	---	DEC	Carson River
103	Lyon County	81150	DEC	715DCR	1/1/1872	SE	SW	14	15N	20E	CC	7	---	362 afa	DEC	Cs Well 41B, Induction Well Redrill
103	Merchant, Bertha, M.; Merchant, Dr. E.D.S.	688DCR	DEC	---	1/1/1874	NE	SW	35	15N	20E	CC	7	15.00	---	DEC	Carson River
103	Lyon County	45460	PER	27191, 718DCR	1/1/1875	NE	NE	4	15N	21E	LY	7	5.90	---	IRR	Carson River
103	Quilici Ranch, Inc.	2404DCR	DEC	---	1/1/1875	SE	SE	23	16N	21E	LY	7	3.00	---	DEC	Carson River
103	** De Rantz, John	2434DCR	DEC	---	1/1/1876	SE	SE	23	16N	21E	LY	7	Unbid	---	DEC	Carson River
103	** Holley, Cecil L.	2324DCR	DEC	---	1/1/1876	SE	SE	23	16N	21E	LY	7	Unbid	---	DEC	Carson River
103	** Holley, Wanda	2324DCR	DEC	---	1/1/1876	SE	SE	23	16N	21E	LY	7	Unbid	---	DEC	Carson River
103	** Todd, Gary H.	2324DCR	DEC	---	1/1/1876	SE	SE	23	16N	21E	LY	7	Unbid	---	DEC	Carson River
103	** Todd, Gregg L.	2324DCR	DEC	---	1/1/1876	SE	SE	23	16N	21E	LY	7	Unbid	---	DEC	Carson River
103	** Todd, Venus E.	2324DCR	DEC	---	1/1/1876	SE	SE	23	16N	21E	LY	7	Unbid	---	DEC	Carson River
103	** Todd, Walter H.	2324DCR	DEC	---	1/1/1876	SE	SE	23	16N	21E	LY	7	Unbid	---	DEC	Carson River
103	Dayton Valley GC & Lyon County	53480	PER	224DCR	1/1/1877	NW	NW	34	16N	21E	LY	7	108.50	---	IRR	Carson River
103	Griswold, David E.	2494DCR	DEC	---	1/1/1877	SE	SE	14	16N	21E	LY	7	4.60	---	DEC	Carson River
103	Dayton Valley GC & Lyon County	54730	PER	53490, 224DCR	1/1/1877	SE	NE	23	16N	21E	LY	7	34.08	---	DEC	Carson River
103	Lyon County	20500	PER	68647, 757DCR	1/1/1877	NW	SW	4	16N	21E	LY	7	---	233.5 afa	MUN	Dayton Well #20
103	Hardy, David And Karen Family Trust, Dated October 5, 2012	21450	DEC	749DCR	1/1/1877	SE	SE	14	16N	21E	LY	7	3.00	---	DEC	Carson River
103	Griswold, David E.	2494DCR	DEC	---	1/1/1877	SE	SE	14	16N	21E	LY	7	13.45	---	DEC	Carson River
103	Dayton Valley GC & Lyon County	224DCR	DEC	---	1/1/1877	NW	NW	34	16N	21E	LY	7	152.11	---	DEC	Carson River
103	Borda Land & Sheeps Company	2514DCR	DEC	---	1/1/1877	SE	SE	14	16N	21E	LY	7	45.00	---	DEC	Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qu	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
103	Allren, Inc.	2543DKR	DEC	---	1/1/877	SE	SE	14	16N	21E	LY	7	5.40	---	DEC	Carson River
103	Hodges Transportation, Inc.	272DKR	DEC	---	1/1/878	NE	SE	4	16N	21E	LY	7	12.40	---	DEC	Carson River
103	Hodges Transportation, Inc.	278DKR	DEC	---	1/1/878	NE	SE	4	16N	23E	LY	7	254.27	---	DEC	Carson River
103	Hodges Transportation, Inc.	280DKR	DEC	---	1/1/878	NE	SE	4	16N	21E	LY	7	185.00	---	DEC	Carson River
103	Perkins, Albert	231DKR	DEC	---	1/1/880	NW	SW	23	16N	20E	LY	7	4.00	---	DEC	Carson River
103	Carson City	2669A	416DKR	---	1/1/881	NE	SW	14	15N	20E	CC	7	200 fda	---	MON	Ce Well 24E Induction Well
103	Carson City	288A	416DKR	76873, 36693, 416DKR	1/1/881	SE	SW	14	15N	20E	CC	7	100 fda	---	MON	Ce Well 41B, Induction Well Redrill
103	Allren, Inc.	254DKR	DEC	---	1/1/881	SE	SE	14	16N	21E	LY	7	108.20	---	DEC	Carson River
103	Allren, Inc.	272DKR	DEC	---	1/1/881	SE	SE	14	16N	22E	LY	7	274.00	---	DEC	Carson River
103	Allren, B.E.	278DKR	DEC	---	1/1/881	NE	SW	35	16N	20E	CC	2	13.00	---	DEC	Carson River
103	Handohabit Malina C	201DKR	DEC	---	1/1/884	NE	SW	35	15N	20E	CC	2	13.00	---	DEC	Carson River
103	Malina, Philip D & Kelly N.	201DKR	DEC	---	1/1/884	NE	SW	35	15N	20E	CC	2	5.00	---	DEC	Carson River
103	Benson, Debra J.	201DKR	DEC	---	1/1/884	NE	SW	35	15N	20E	CC	2	2.50	---	DEC	Carson River
103	Benson, James A.	201DKR	DEC	---	1/1/884	NE	SW	35	15N	20E	CC	2	2.50	---	DEC	Carson River
103	Aspen Creek, LLC	273DKR	DEC	---	1/1/885	SE	SW	33	17N	20E	LY	7	29.00	---	DEC	Carson River
103	Aspen Creek, LLC	273DKR	DEC	---	1/1/885	SE	SW	33	17N	20E	LY	7	29.00	---	DEC	Carson River
103	Davidson Valley GC & Lawn County	50417	PER	---	1/1/886	NW	NW	34	16N	21E	LY	7	5.50	---	IRR	Carson River
103	Pradere, Camille M.; Thompson, Mrs. C.	276DKR	DEC	---	1/1/886	NE	SW	26	16N	21E	LY	7	28.00	---	DEC	Carson River
103	Quilley Ranch, Inc.	244DKR	DEC	---	1/1/888	SE	SE	23	16N	21E	LY	7	32.00	---	DEC	Carson River
103	Allren, Inc.	254DKR	DEC	---	1/1/888	SE	SE	14	16N	21E	LY	7	84.00	---	DEC	Carson River
103	Aspen Creek, LLC	273DKR	DEC	---	1/1/888	SE	SE	33	17N	22E	LY	7	15.00	---	DEC	Carson River
103	Perkins, Albert	231DKR	DEC	---	1/1/884	SW	SE	23	16N	21E	LY	7	4.00	---	DEC	Carson River
103	Perkins, Albert	231DKR	DEC	---	1/1/884	SW	SE	23	16N	21E	LY	7	4.00	---	DEC	Carson River
103	** De Rantz, John	276DKR	DEC	---	1/1/895	SE	SE	23	16N	21E	LY	7	Unhydro	---	DEC	Carson River
103	** Holley, Cecil L.	236DKR	DEC	---	1/1/895	SE	SE	23	16N	21E	LY	7	Unhydro	---	DEC	Carson River
103	** Holley, Wanda	236DKR	DEC	---	1/1/895	SE	SE	23	16N	21E	LY	7	Unhydro	---	DEC	Carson River
103	** Todd, Gary H.	236DKR	DEC	---	1/1/895	SE	SE	23	16N	21E	LY	7	Unhydro	---	DEC	Carson River
103	** Todd, Gregg L.	236DKR	DEC	---	1/1/895	SE	SE	23	16N	21E	LY	7	Unhydro	---	DEC	Carson River
103	** Todd, Walter H.	236DKR	DEC	---	1/1/895	SE	SE	23	16N	21E	LY	7	Unhydro	---	DEC	Carson River
103	Lawn County	82491	PER	201DKR	1/1/897	NW	NW	4	16N	22E	LY	7	105.2 afu	---	MON	Dawson Well 220
103	Perkins, Albert	231DKR	DEC	---	1/1/888	SW	SE	23	16N	21E	LY	7	4.00	---	DEC	Carson River
103	Carson City	32223	PER	33870, 699DKR	1/1/899	NE	SW	14	15N	20E	CC	7	6.00	---	MON	Ce Well 29B, Induction Well
103	Consolidated Municipality Of Carson	69273	PER	688DKR	4/1/895	NE	SW	14	15N	20E	CC	7	190.8 afu	---	MON	Ce Well 29B, Induction Well
105	Kimmerling, Robert A.	240290	PER	260DKR	1/1/900	NE	NE	15	12N	20E	DO	2	25.70	---	IRR	Carson R. (Edna Wisler)
105	Kimmerling, Robert A.	24065	PER	260DKR	1/1/900	NE	NE	15	12N	20E	DO	2	53.30	---	IRR	East Fork Carson River
105	Allegretti, Joseph B. & Helen J.	394000	PER	259DKR	1/1/900	NE	NE	15	12N	20E	DO	2	71.00	---	IRR	East Fork Carson River
105	Russell, Robert W. and Pam	394000	PER	259DKR	1/1/900	NE	NE	15	12N	20E	DO	2	15.00	---	IRR	East Fork Carson River
105	Bentley Family Ltd. Partnership	64135	PER	257DKR	1/1/900	NW	SE	19	12N	20E	DO	2	18.75	---	IRR	East Fork Carson River
105	Bentley Family Limited Partnership	24510	PER	60972, 264DKR	1/1/900	NW	SE	10	12N	20E	DO	2	21.01	---	IRR	East Fork Carson River
105	Bentley Family Limited Partnership	24514	PER	64136, 245DKR	1/1/900	NW	SE	10	12N	20E	DO	2	74.09	---	IRR	East Fork Carson River
105	J And S Land And Cattle Company, LLC	29646	PER	608DKR	1/1/900	NW	NW	29	12N	20E	DO	3	12.50	---	DEC	West Fork Carson River
105	Lortie Community Property Trust	87831	RFA	64770, 158DKR	1/1/900	SE	SE	23	12N	20E	DO	2	---	---	DEC	East Fork Carson River
105	Landino, Rick And Edith	88661	RFA	81618, 81618, 60DKR	1/1/900	SW	NW	25	12N	20E	DO	2	---	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	143DKR	DEC	---	1/1/900	NE	SE	10	12N	20E	DO	2	7.19	---	DEC	East Fork Carson River
105	Jacobson Family 1982 Trust	244DKR	DEC	---	1/1/900	NE	SE	10	12N	20E	DO	2	1.81	---	DEC	East Fork Carson River
105	State Of California	244DKR	DEC	---	1/1/900	SE	SW	24	10N	20E	AL	1	5.70	---	DEC	Shaw Creek
105	Frickle, Gordon A.; Frickle, Mary Jo Anne	254DKR	DEC	---	1/1/900	NW	SE	10	12N	20E	DO	2	12.50	---	DEC	East Fork Carson River
105	Summit Homes, LTD	254DKR	DEC	---	1/1/900	NW	SE	10	12N	20E	DO	2	12.50	---	DEC	East Fork Carson River
105	Mapell, William Lynn and Eva Dow	254DKR	DEC	---	1/1/900	NW	SE	10	12N	20E	DO	2	11.68	---	DEC	East Fork Carson River
105	Carson Water Subconservancy	254DKR	DEC	---	1/1/900	NW	SE	10	12N	20E	DO	2	6.35	---	DEC	East Fork Carson River
105	Sierra Nevada Landco	264DKR	DEC	---	1/1/900	NW	SE	10	12N	20E	DO	2	4.48	---	DEC	East Fork Carson River
105	Douglas County	254DKR	DEC	---	1/1/900	NW	SE	10	12N	20E	DO	2	1.92	---	DEC	East Fork Carson River
105	The Town of Minden	254DKR	DEC	---	1/1/900	NW	SE	10	12N	20E	DO	2	0.10	---	DEC	East Fork Carson River
105	Bruno, Joseph Land Laura A.	254DKR	DEC	---	1/1/900	NW	SE	10	12N	20E	DO	2	4.10	---	DEC	East Fork Carson River
105	Kingsbury Rentals LLC	254DKR	DEC	---	1/1/900	NW	SE	10	12N	20E	DO	2	1.37	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qr	POD Qtr	POD Sec	POD Town ship	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Fund B Frost	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	1.03	---	DEC	East Fork Carson River
105	Fowler, Hulth and Bauer	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	8.18	---	DEC	East Fork Carson River
105	Beatty, Donald E.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	1.24	---	DEC	East Fork Carson River
105	Bartels, William, Gladys, Marvin, Dorothy	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	0.34	---	DEC	East Fork Carson River
105	Vidler Water Company	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	28.06	---	DEC	East Fork Carson River
105	Gansberg, Chris H.; Gansberg, Chris H. Jr.; Gansberg, Ellen H.; Gansberg, Fred H.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	37.60	---	DEC	East Fork Carson River
105	** Kimmerling, Margery A.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kimmerling, Robert A.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kichin, Donald M.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Tierra Linda Estates	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Van Vliet, Alice	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Van Vliet, Louis	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Vee, Andrew	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kimmerling, Margery A.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kimmerling, Robert A.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kichin, Donald M.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Tierra Linda Estates	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Van Vliet, Alice	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Van Vliet, Louis	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Vee, Andrew	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Greater Capital Corporation	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	25.08	---	DEC	East Fork Carson River
105	Johnson Pacific, Inc	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	10.08	---	DEC	East Fork Carson River
105	Neuman, David W. and Elisabeth W.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	2.15	---	DEC	East Fork Carson River
105	Beatty, Donald E.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	1.14	---	DEC	East Fork Carson River
105	Kimmerling, Robert A. and Margery A.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	86.73	---	DEC	East Fork Carson River
105	Russell, Robert W. and Pam.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	0.46	---	DEC	East Fork Carson River
105	Kimmerling, Robert A. and Margery A.	250DKR	DEC	---	1/1/1900	NW	SE	10	12N	DO	2	78.00	---	DEC	East Fork Carson River
105	** Bush, Stephen C.	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bush, Susan M. Balem	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Cervenak, Robert F.	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fitz, George	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Helboink, Edna A.	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Helboink, John H.	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Issac, Alice L.	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Issac, Edward	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** K & M Developers	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Middaugh, Vance A.	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, Janette	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mullins, Robert W.	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rosser, Wallace A.	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Sullivan, Edward P.	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Van Winkle, Claudia	250DKR	DEC	---	1/1/1900	NW	SW	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
 Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	**Van Winkle, Raymond	2750DKR	DEC	---	1/1/1900	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wheat, Robert	2750DKR	DEC	---	1/1/1900	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wheat, Twyjala	2750DKR	DEC	---	1/1/1900	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Fricke, Gordon A.; Fricke, Mary Jo Anne	2850DKR	DEC	---	1/1/1900	NE	SE	9	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	Fricke, Gordon A.; Fricke, Mary Jo Anne	2850DKR	DEC	---	1/1/1900	NW	SE	9	12N	20E	DO	2	9.00	---	DEC	East Fork Carson River
105	Hilbert, Noel Edgar; Hilbert, Peggie Marie	2950DKR	DEC	---	1/1/1900	NW	SE	8	12N	20E	DO	2	8.00	---	DEC	East Fork Carson River
105	F. Harte Land and Investment Co, Inc	3050DKR	DEC	---	1/1/1900	NW	SE	8	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	3150DKR	DEC	---	1/1/1900	SE	SW	8	12N	20E	DO	4	384.00	---	DEC	West Fork Carson River
105	Bressler, Ernest	3250DKR	DEC	---	1/1/1900	SE	SW	8	12N	20E	DO	4	3.00	---	DEC	West Fork Carson River & Indian Creek
105	Berne Company	3350DKR	DEC	---	12/31/1900	NW	NW	28	11N	20E	DO	4	77.40	---	DEC	East Fork Carson River
105	Summit Homes, LTD	3450DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	24.24	---	DEC	East Fork Carson River
105	Magill, William Lynn and Eva Dee	3550DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	11.68	---	DEC	East Fork Carson River
105	Sierra Nevada Landco	3650DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	5.32	---	DEC	East Fork Carson River
105	Stone, Gary and Camille	3750DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	5.11	---	DEC	East Fork Carson River
105	Douglas County	3850DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	3.43	---	DEC	East Fork Carson River
105	Begi, Theresa	3950DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	3.04	---	DEC	East Fork Carson River
105	Shahin, John S.	4050DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	3.06	---	DEC	East Fork Carson River
105	Prosser, James R.	4150DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	3.01	---	DEC	East Fork Carson River
105	Carson Water Subconservancy	4250DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	2.06	---	DEC	East Fork Carson River
105	Vidler Water Company	4350DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	1.83	---	DEC	East Fork Carson River
105	Nicholson Partners LP	4450DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	0.41	---	DEC	East Fork Carson River
105	Fricke, Gordon A.; Fricke, Mary Jo Anne	4550DKR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	Fricke, Gordon A.; Fricke, Mary Jo Anne	4650DKR	DEC	---	1/1/1902	NE	SE	9	12N	20E	DO	2	12.70	---	DEC	East Fork Carson River
105	J.C. Lawrence Living Trust	4750DKR	DEC	---	1/1/1902	NE	SE	9	12N	20E	DO	2	2.74	---	DEC	East Fork Carson River
105	J.S. Lawrence Living Trust	4850DKR	DEC	---	1/1/1902	NE	SE	9	12N	20E	DO	2	2.26	---	DEC	East Fork Carson River
105	B.F. and B.L. Lawrence Family Trust	4950DKR	DEC	---	1/1/1902	NE	SE	9	12N	20E	DO	2	1.93	---	DEC	East Fork Carson River
105	S.W. Lawrence Living Trust	5050DKR	DEC	---	1/1/1902	NE	SE	9	12N	20E	DO	2	1.63	---	DEC	East Fork Carson River
105	Christie/Barton Lawrence Trust	5150DKR	DEC	---	1/1/1902	NE	SE	9	12N	20E	DO	2	0.69	---	DEC	East Fork Carson River
105	J.A. and G. Lawrence Nevada Trust	5250DKR	DEC	---	1/1/1902	NE	SE	9	12N	20E	DO	2	0.65	---	DEC	East Fork Carson River
105	Fricke, Gordon A.; Fricke, Mary Jo Anne	5350DKR	DEC	---	1/1/1902	NE	SE	9	12N	20E	DO	2	10.50	---	DEC	East Fork Carson River
105	Kimmerling, Robert A. and Margery A.	5450DKR	DEC	---	1/1/1902	NW	NE	32	12N	20E	DO	5	34.37	---	DEC	West Fork Carson River
105	Allegretti, Joseph E. & Helen J.	5550DKR	DEC	---	1/1/1902	NW	NE	32	12N	20E	DO	5	1.57	---	DEC	West Fork Carson River
105	Russell, Robert W. and Pam	5650DKR	DEC	---	1/1/1902	NW	NE	32	12N	20E	DO	5	0.05	---	DEC	West Fork Carson River
105	Gallert, Frances M., Galopp, Leo B.	5750DKR	DEC	---	1/1/1903	SE	SE	24	13N	19E	DO	2	112.00	---	DEC	East Fork Carson River
105	Kimmerling, Margery A.	5850DKR	DEC	---	1/1/1903	NW	NE	32	12N	20E	DO	5	19.80	---	DEC	West Fork Carson River
105	Credit Shelter Trust (22-2115)	5950DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	6.69	---	DEC	East Fork Carson River
105	Merrill Deduction Trust (19-325)	6050DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	5.82	---	DEC	East Fork Carson River
105	Godkebe Family Trust Agree. (16-495)	6150DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	4.95	---	DEC	East Fork Carson River
105	Godkebe, Frank E. (14-613)	6250DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	4.38	---	DEC	East Fork Carson River
105	Godkebe, Henry R. (14-613)	6350DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	4.38	---	DEC	East Fork Carson River
105	Bjork Trust for Mary (13-035)	6450DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	3.78	---	DEC	East Fork Carson River
105	Petrzak, Jess K. and Rita W.	6550DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	0.78	---	DEC	East Fork Carson River
105	Robson, Donald and Traci M.	6650DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	2.92	---	DEC	East Fork Carson River
105	Colburn, Edwin C. and Elizabeth A.	6750DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	1.16	---	DEC	East Fork Carson River
105	Klauer, Robert and Blanche	6850DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	2.22	---	DEC	East Fork Carson River
105	Shankel, Carl W. and Grace M.	6950DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	1.36	---	DEC	East Fork Carson River
105	Golden, James B. and Agnes B.	7050DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	1.36	---	DEC	East Fork Carson River
105	Scott, John E. and Karen L.	7150DKR	DEC	---	1/1/1903	SE	SE	23	12N	20E	DO	2	4.31	---	DEC	East Fork Carson River
105	Credit Shelter Trust	7250DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	3.74	---	DEC	Carson River
105	Marital Deduction Trust	7350DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	3.74	---	DEC	Carson River
105	Godkebe Family Trust Armit	7450DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	4.18	---	DEC	Carson River
105	Godkebe, Frank E.	7550DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	2.82	---	DEC	Carson River
105	Godkebe, Henry R.	7650DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	2.82	---	DEC	Carson River
105	Living Trust for Mary Godkebe	7750DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	2.43	---	DEC	Carson River
105	Bentley Family, LLC	7850DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	65.00	---	DEC	East Fork Carson River
105	Madley, Wayne C. and Alonise A.	7950DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	Bentley Family, LLC	8050DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	22.00	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Melley, Wayne C. and Abouise A.	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	1.00	---	DEC	East Fork Carson River
105	Credit Shelter Trust (22.41%)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	64.47	---	DEC	East Fork Carson River
105	Married Deduction Trust (19.39%)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	56.90	---	DEC	East Fork Carson River
105	Godolke Family Trust Agree (16.49%)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	48.38	---	DEC	East Fork Carson River
105	Godolke, Henry R. (14.61%)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	42.87	---	DEC	East Fork Carson River
105	Godolke, Frank E. (14.61%)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	42.87	---	DEC	East Fork Carson River
105	Living Trust for Mary (12.50)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	30.94	---	DEC	East Fork Carson River
105	Wallstrom, Randall & Anita	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	4.10	---	DEC	East Fork Carson River
105	Curtis Family Trust	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	3.43	---	DEC	East Fork Carson River
105	Curtis Family Trust, Dated 5/2/1995	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	3.43	---	DEC	East Fork Carson River
105	Credit Shelter Trust (22.41%)	241DKR	DEC	78DKR	1/1/1905	SE	SE	23	12N	20E	DO	2	18.43	---	DEC	East Fork Carson River
105	Married Deduction Trust (19.39%)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	18.43	---	DEC	East Fork Carson River
105	Godolke, Henry R. (14.61%)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	16.18	---	DEC	East Fork Carson River
105	Godolke, Frank E. (14.61%)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	16.18	---	DEC	East Fork Carson River
105	Living Trust for Mary (12.50)	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	10.31	---	DEC	East Fork Carson River
105	Wallstrom, Randall & Anita	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	10.31	---	DEC	East Fork Carson River
105	Curtis Family Trust	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	10.31	---	DEC	East Fork Carson River
105	Curtis Family Trust, Dated 5/2/1995	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	10.31	---	DEC	East Fork Carson River
105	Benefit Family Trust Partnership	241DKR	DEC	---	1/1/1905	SE	SE	23	12N	20E	DO	2	18.54	---	DEC	East Fork Carson River
105	Hansen, Helen, Hanson, Hugh	241DKR	DEC	---	1/1/1910	SE	SE	34	13N	19E	DO	2	14.50	---	DEC	West Fork Carson River
105	Allerman, Laura (H&W)	241DKR	DEC	---	1/1/1910	SE	SE	34	13N	19E	DO	2	14.50	---	DEC	West Fork Carson River
105	Allerman, Laura (H&W)	241DKR	DEC	---	1/1/1910	SE	SE	34	13N	19E	DO	2	14.50	---	DEC	West Fork Carson River
105	Annexed Ltd.	241DKR	DEC	---	3/1/1910	SE	SE	18	13N	20E	AL	1	4.08	---	DEC	West Fork Carson River
105	Marble Village Corporation	241DKR	DEC	---	1/1/1911	NE	NW	29	10N	20E	AL	1	2.00	---	DEC	Hot Springs Creek
105	Settlemyer, A.	196D	DEC	---	2/25/1911	SW	SW	24	12N	20E	DO	2	---	364.0 afa	PWR	Carson River
105	Valley Water Company	281DKR	DEC	---	1/1/1912	NE	SE	9	12N	20E	DO	2	13.49	---	DEC	Allerman Ditch
105	Helfwieser, Betty And Elmer	281DKR	DEC	---	1/1/1912	NE	SE	9	12N	20E	DO	2	5.51	---	DEC	East Fork Carson River
105	Aureduct Ltd	281DKR	DEC	---	3/1/1913	SE	SE	18	11N	20E	AL	4	L45	---	DEC	West Fork Carson River
105	** Bassman, Henry	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** Bassman, Lu Wine	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** McMasters, John F.	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** McMasters, Viola Marie	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** Miller, Gerald D.	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** Miller, Margarethe L.	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** Nile, Rubel	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** Ruthenstroth, Jennie L.	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** Ruthenstroth, Lois Esther	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** Ruthenstroth, Henry W.	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** Bassman, Henry	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** Bassman, Lu Wine	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River
105	** McMasters, John F.	281DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	Unbid	---	DEC	East Fork Carson River

Prepared by Resource Concepts, Inc. Page 7 of 45 Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** McMaisters, Viola Marie	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, Gerald D.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, Margarethe L.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nibse, Rubel	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ruthenstroth, Jennie L.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ruthenstroth, Lois Ester	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ruthenstroth, Henry W.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bassman, Henry	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bassman, La Wine	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bowen, Lois	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bowen, Wayne D.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** McMaisters, John F.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** McMaisters, Viola Marie	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, Gerald D.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, Margarethe L.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nibse, Rubel	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, Margarethe L.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nibse, Rubel	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ruthenstroth, Jennie L.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ruthenstroth, Lois Esther	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ruthenstroth, Henry W.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	L. Roger Bitton and Margarethe L. Bitton	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Lois C. Joxce	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Peter S. and Janet L. Bowie (1/2 UDI), Jack Mackelie (1/4 UDI), and Fred R. and Lorraine Norton (1/4 UDI)	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	William S. and Patricia Rauber	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Gerald D. Miller, Et Al	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Minden-Town	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Henry, Jennie, Lois Ruthenstroth; John, Viola Marie McMaisters; Henry and La Wine Bassman; Rubel Nibse	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Town of Minden	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Downer, Alice and Robert C.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brown, Delores C.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brown, Frank E.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Burton, A. Graydon	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Burton, Patricia	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Cook, Ronald D.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Cox, M. D.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Downer, Alice G.	581DCCR	DEC	---	1/1/1916	NW	SW	25	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Downer, Robert C.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Goyman, Fern	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Herbolzheimer, L.E.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Herbolzheimer, Sharia	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hill, H.J.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hill, Jeanette L.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jarvis, Richard	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kass, Paul F.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mathison, John R.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Modispaicher, A.J.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nielson, K.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Oswald, Y.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Richards, Evelyn	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Richmond, T.D.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Roth, Rocky D.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Searingen, Keith G.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Sorrensens, Merritt E.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Stachler, R.C.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Searingen, Joan M.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Vassar, Ben J.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Williams, Mary	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Williams, Roy A.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	Swearingen, Keith G. & Joan M., Nielson, K. & Oswald, Y.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	2.87	DEC	East Fork Carson River
105	Murphy, Robert E. and Cynthia	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	1.83	DEC	East Fork Carson River
105	Jones, Laura L., Jones, Max L.	584DKR	DEC	---	1/1/1916	NW	SW	25	12N	20E	2	Unsubdivided	8.49	DEC	East Fork Carson River
105	Carson Water Subconservancy	584DKR	DEC	---	1/1/1924	---	---	---	---	---	---	---	---	IRR	Upper Or. Lost Lake
105	Carson Water Subconservancy	584DKR	DEC	---	1/1/1924	---	---	---	---	---	---	---	---	IRR	Lower Or. West Lost Lake
105	Bentley Family Limited Partnership	68444	52418	078DKR	8/3/2009	SW	SW	24	12N	20E	2	Unsubdivided	---	DEC	Carson River
105	Bentley Family Limited Partnership	68444	52418	651DKR	7/29/2009	SW	SW	21	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	68444	52418	651DKR	7/29/2009	SW	SW	24	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	68444	52418	651DKR	7/29/2009	SW	SW	24	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	68444	52418	651DKR	7/29/2009	SW	SW	24	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	68444	52418	651DKR	7/29/2009	SW	SW	24	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	68444	52418	651DKR	7/29/2009	SW	SW	24	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	68444	52418	651DKR	7/29/2009	SW	SW	24	12N	20E	2	Unsubdivided	---	DEC	East Fork Carson River
105	Sierra Green Energy, LLC	68444	52418	RFP	1/22/2018	NW	SW	25	12N	20E	2	Unsubdivided	---	PWR	East Fork Carson River
105	Shuglia, William T., Mrs. V.T. Whitman	68444	52418	669DKR	1/1/1852	SE	NW	34	13N	19E	6	Unsubdivided	25.16	IRR	West Fork Carson River
105	Charney, Howard & Alida Trust	53444	15040	669DKR	1/1/1852	NE	SW	35	14N	19E	6	Unsubdivided	18.84	IRR	Carson River
105	Genoa Golf Group IV, LLC	57444	15174	672DKR	1/1/1852	NE	NE	19	13N	19E	5	Unsubdivided	114.72	IRR	Carson River
105	Genoa Golf Group IV, LLC	57444	15174	672DKR	1/1/1852	NE	SE	3	13N	19E	5	Unsubdivided	---	IRR	Carson River
105	Ruth No. 1 Limited Partnership	664DKR	DEC	---	1/1/1852	SW	NE	15	13N	19E	5	Unsubdivided	38.12	DEC	West Fork Carson River
105	Trimmer, Arnold R. and Annie I.	664DKR	DEC	---	1/1/1852	SW	NE	15	13N	19E	5	Unsubdivided	1.88	DEC	West Fork Carson River
105	Genoa Lakes Venture	624DKR	DEC	---	1/1/1852	NW	NE	19	13N	19E	6	Unsubdivided	65.57	DEC	Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town-ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	John E. Duort And Laurie W. Weaver Revocable Trust Dated 3/17/2017	6243DCR	DEC	---	1/1/1852	NW	NE	10	13N	19E	DO	6	1.05	---	DEC	Carson River
105	Villard, Susan & Anthony	6274DCR	DEC	---	1/1/1852	NW	NE	10	13N	19E	DO	6	0.77	---	DEC	Carson River
105	Adams, Rufin W.	6274DCR	DEC	---	1/1/1852	SW	NW	2	13N	19E	DO	6	76.24	---	DEC	Carson River
105	Stueck, Ronald	6274DCR	DEC	---	1/1/1852	NE	NW	2	13N	19E	DO	6	49.46	---	DEC	Carson River
105	Ranch No. 1 Limited Partnership	6243DCR	DEC	---	1/1/1853	NE	NW	19	12N	20E	DO	5	60.00	---	DEC	West Fork Carson River
105	Prime Eagle Ranch, LLC	6243DCR	DEC	---	1/1/1854	NW	NW	29	12N	20E	DO	5	105.00	---	DEC	West Fork Carson River
105	Prime Eagle Ranch, LLC	6243DCR	DEC	---	1/1/1854	NW	NW	29	12N	20E	DO	5	105.00	---	DEC	West Fork Carson River
105	Prime Eagle Ranch, LLC	6243DCR	DEC	---	1/1/1854	NW	NW	29	12N	20E	DO	5	105.00	---	DEC	West Fork Carson River
105	Dressler, Anna E. & Tomerlin, James O. & Tomerlin, William F. Partnership	6243DCR	DEC	---	1/1/1854	NE	NW	19	12N	20E	DO	5	168.00	---	DEC	West Fork Carson River
105	Bassett, Paul & Michelle	6243DCR	DEC	---	1/1/1854	NE	NW	19	12N	20E	DO	5	20.03	---	DEC	West Fork Carson River
105	Tomerlin, William O. & James O.	6243DCR	DEC	---	1/1/1854	NE	NW	19	12N	20E	DO	5	31.18	---	DEC	West Fork Carson River
105	Helen E. Johnson	6243DCR	DEC	---	1/1/1854	NE	NE	32	13N	19E	DO	5	18.00	---	DEC	West Fork Carson River
105	Altermann, Laura (Heir)	6243DCR	DEC	---	1/1/1854	NE	NE	32	13N	19E	DO	5	30.00	---	DEC	West Fork Carson River
105	Sturgis, William T.	6243DCR	DEC	---	1/1/1854	NE	NE	35	13N	19E	DO	5	160.00	---	DEC	West Fork Carson River
105	Westfork Trust Agreement	6243DCR	DEC	---	1/1/1855	SE	NW	19	12N	20E	DO	5	32.00	---	DEC	West Fork Carson River
105	Chappell, K. C. & James, Paul C.	6243DCR	DEC	---	1/1/1855	NE	NW	19	12N	20E	DO	5	32.00	---	DEC	West Fork Carson River
105	Smith, Margaret May & Raymond	6243DCR	DEC	---	1/1/1855	NE	NW	19	12N	20E	DO	5	19.91	---	DEC	West Fork Carson River
105	Drewer Foodhill Ranch, LLC	6243DCR	DEC	---	1/1/1855	NE	NW	19	12N	20E	DO	5	46.00	---	DEC	West Fork Carson River
105	Rebe, Elizabeth (Heir)	6243DCR	DEC	---	1/1/1855	SE	NW	13	12N	20E	DO	5	8.00	---	DEC	West Fork Carson River
105	Sarman Family Limited Partnership	6243DCR	DEC	---	1/1/1855	SE	NW	13	12N	20E	DO	5	245.00	---	DEC	West Fork Carson River
105	Ranch No. 1 Limited Partnership	6243DCR	DEC	---	1/1/1855	SW	NE	15	13N	19E	DO	5	1.13	---	DEC	West Fork Carson River
105	Trimmer, Arnold R. and Annie I	6243DCR	DEC	---	1/1/1855	SW	NE	15	13N	19E	DO	5	37.00	---	DEC	West Fork Carson River
105	Jenkins, Mildred, Thern, Lois	6243DCR	DEC	---	1/1/1856	SE	NW	13	12N	19E	DO	5	16.20	---	DEC	West Fork Carson River
105	Vallier Water Company	6243DCR	DEC	---	1/1/1856	SE	NW	13	12N	19E	DO	5	16.20	---	DEC	West Fork Carson River
105	Frederick & Lolanary Dressler Family Trust	6243DCR	DEC	633DCR	1/1/1857	NE	SW	5	11N	20E	DO	5	2.00	---	DEC	West Fork Carson River
105	Frederick & Lolanary Dressler Family Trust	6243DCR	DEC	633DCR	1/1/1857	NW	NE	5	11N	20E	DO	5	4.35	---	DEC	West Fork Carson River
105	The Frederick And Lolanary Dressler Family Trust	6243DCR	DEC	66799, 62973, 633DCR	1/1/1857	NW	NE	5	11N	20E	DO	5	0.65	---	DEC	West Fork Carson River
105	U.S.A. (Trust For Washoe Tribal)	6243DCR	DEC	---	1/1/1857	SE	NW	23	12N	20E	DO	2	305.00	---	DEC	East Fork Carson River
105	H. F. Dauberg Land And Livestock Co.	6243DCR	DEC	---	1/1/1857	SW	SE	31	13N	20E	DO	2	1.00	---	DEC	East Fork Carson River
105	Kammerling, Marysue A., Kammerling, Robert A.	6243DCR	DEC	---	1/1/1857	NW	NE	32	12N	20E	DO	5	57.30	---	DEC	West Fork Carson River
105	Sarman Family Limited Partnership	6243DCR	DEC	---	1/1/1857	SE	NE	12	12N	19E	DO	5	13.30	---	DEC	West Fork Carson River
105	H. F. Dauberg Land And Livestock Co.	6243DCR	DEC	---	1/1/1857	SW	SW	36	13N	19E	DO	5	13.30	---	DEC	West Fork Carson River
105	Nature Conservancy	6243DCR	DEC	---	1/1/1857	NW	NE	35	13N	19E	DO	5	47.01	---	DEC	West Fork Carson River
105	Timken-Sturgis	6243DCR	DEC	---	1/1/1857	NE	NE	35	13N	19E	DO	5	55.19	---	DEC	West Fork Carson River
105	Pope Valley Ranching Nevada, LLC	6243DCR	DEC	---	1/1/1857	SE	SW	36	13N	19E	DO	5	95.00	---	DEC	West Fork Carson River
105	Pope Valley Ranching Nevada, LLC	6243DCR	DEC	---	1/1/1857	SE	SW	36	13N	19E	DO	5	62.10	---	DEC	West Fork Carson River
105	Pope Valley Ranching Nevada, LLC	6243DCR	DEC	---	1/1/1857	SE	SW	36	13N	19E	DO	5	4.90	---	DEC	West Fork Carson River
105	Muller, Jeanne	6243DCR	DEC	---	1/1/1857	SE	SW	36	13N	19E	DO	5	133.20	---	DEC	West Fork Carson River
105	Pope Valley Ranching Nevada, LLC	6243DCR	DEC	---	1/1/1857	SE	SW	36	13N	19E	DO	5	78.00	---	DEC	West Fork Carson River
105	H. F. Dauberg Land And Livestock Co.	6243DCR	DEC	---	1/1/1857	SE	SW	36	13N	19E	DO	5	64.68	---	DEC	West Fork Carson River
105	Teig Family Investments	6243DCR	DEC	---	1/1/1857	SW	NW	26	13N	19E	DO	5	123.20	---	DEC	West Fork Carson River
105	Teig Family Trust	6243DCR	DEC	---	1/1/1857	SW	NW	26	13N	19E	DO	5	36.80	---	DEC	West Fork Carson River
105	Timken-Sturgis	6243DCR	DEC	---	1/1/1857	SW	NE	26	13N	19E	DO	5	42.23	---	DEC	West Fork Carson River
105	Nature Conservancy	6243DCR	DEC	---	1/1/1857	SW	NE	26	13N	19E	DO	5	35.97	---	DEC	West Fork Carson River
105	Frank H. Muller	6243DCR	DEC	---	1/1/1857	SW	NE	26	13N	19E	DO	5	40.00	---	DEC	West Fork Carson River
105	Teig Family Investments	6243DCR	DEC	---	1/1/1857	SW	NE	26	13N	19E	DO	5	32.50	---	DEC	West Fork Carson River
105	Teig Family Trust	6243DCR	DEC	---	1/1/1857	SW	NE	26	13N	19E	DO	5	32.50	---	DEC	West Fork Carson River
105	Gunn, Elizabeth M.	6243DCR	DEC	---	1/1/1857	SE	NW	18	12N	20E	DO	5	60.60	---	DEC	West Fork Carson River
105	Swensen, Dorothy B.	6243DCR	DEC	---	1/1/1857	SE	NW	18	12N	20E	DO	5	60.60	---	DEC	West Fork Carson River
105	Westfork Trust Agreement	6243DCR	DEC	---	1/1/1857	SE	NW	19	12N	20E	DO	5	8.00	---	DEC	West Fork Carson River
105	Foodhill Ranch, LLC	6243DCR	DEC	---	1/1/1857	NE	NW	19	12N	20E	DO	5	22.40	---	DEC	West Fork Carson River
105	Schwalbe Family Credit Trust	6243DCR	DEC	---	1/1/1857	NE	NW	19	12N	20E	DO	5	9.00	---	DEC	West Fork Carson River
105	Dressler, Anna E. & Tomerlin, James O. & Tomerlin, William F. Partnership	6243DCR	DEC	---	1/1/1857	NE	NW	19	12N	20E	DO	5	28.00	---	DEC	West Fork Carson River
105	Tomerlin, James O., Tomerlin, William F.	6243DCR	DEC	---	1/1/1857	SE	NW	13	12N	19E	DO	5	7.00	---	DEC	West Fork Carson River
105	Sarman Family Limited Partnership	6243DCR	DEC	---	1/1/1857	NW	SW	12	12N	19E	DO	5	50.00	---	DEC	West Fork Carson River
105	F. Heise Land & Livestock	6243DCR	DEC	---	1/1/1857	NW	SW	12	12N	19E	DO	5	75.00	---	DEC	West Fork Carson River
105	Springer Ranch	6243DCR	DEC	---	1/1/1857	SE	SE	2	12N	19E	DO	5	99.37	---	DEC	West Fork Carson River
105	Kolbe Elliot T.	6243DCR	DEC	---	1/1/1857	SE	SE	2	12N	19E	DO	5	40.29	---	DEC	West Fork Carson River
105	Mariens Ann Johnson Springmeier	6243DCR	DEC	---	1/1/1857	SE	SE	2	12N	19E	DO	5	40.29	---	DEC	West Fork Carson River
105	Helen Elizabeth Johnson Living Trust	6243DCR	DEC	---	1/1/1857	SE	SE	2	12N	19E	DO	5	38.08	---	DEC	West Fork Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town-Ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Graboff, Steven R. And Lynda Clarke Graboff	5410DCR	DEC	---	1/1/1857	SE	SE	2	12N	19E	DO	5	4.21	---	DEC	West Fork Carson River
105	Pope Valley Ranching Nevada, LLC	5610DCR	DEC	---	1/1/1857	SW	SE	27	13N	19E	DO	5	53.00	---	DEC	West Fork Carson River
105	Tate Family Investments	6010DCR	DEC	---	1/1/1857	SW	NE	15	13N	19E	DO	5	31.57	---	DEC	West Fork Carson River
105	Tate Family Trust	6593DCR	DEC	---	1/1/1857	SW	NE	15	13N	19E	DO	5	9.43	---	DEC	West Fork Carson River
105	Stodiek, W. H. Elvin; Stodiek, William R.R.	4932Z	5448	217DCR	1/1/1858	NW	SW	4	12N	20E	DO	2	91.00	---	IRR	East Fork Carson River
105	Bentley Family Limited Partnership	46519	17434	43813, 227DCR	1/1/1858	SW	SW	24	12N	20E	DO	2	58.00	---	IRR	Carson River
105	Bentley Family Limited Partnership	46531	17419	43818, 43819	1/1/1858	SW	SW	24	12N	20E	DO	2	2.11	---	IRR	Carson River
105	J And S Land And Cattle Company, LLC	46747	38540	602DCR	1/1/1858	NW	NW	29	12N	20E	DO	5	5.00	---	DEC	West Fork Carson River
105	Fredric C. Stodiek And Betty-Jane Stodiek, Co-Trustees Of The F. Stodiek Family Revocable Trust Dated 5/16/2006	2266L	1953Z	225DCR	1/1/1858	SE	NE	5	12N	20E	DO	2	15.00	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	54850	RFP	4361DCR	1/1/1858	NE	SE	24	13N	19E	DO	2	---	---	IRR	East Fork Carson River
105	Park Ranch Holdings, LLC	46884	RFP	4281DCR	1/1/1858	NE	SE	24	13N	19E	DO	2	---	---	IRR	East Fork Carson River
105	Mack, Duane	222DCR	DEC	---	1/1/1858	SW	NE	5	12N	20E	DO	2	232.44	---	DEC	East Fork Carson River
105	Gilbert, Michael C. and Aiged Kerr	6241DCR	DEC	---	1/1/1858	SW	NE	5	12N	20E	DO	2	0.56	---	DEC	East Fork Carson River
105	F. Stodiek Family Revocable Trust	225DCR	DEC	---	1/1/1858	SW	NE	5	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Stodiek, W. H. Elvin; Stodiek, William R.R.	2243DCR	DEC	---	1/1/1858	SW	NW	5	12N	20E	DO	2	5.00	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	227DCR	DEC	---	1/1/1858	SE	SE	31	13N	19E	DO	2	258.00	---	DEC	East Fork Carson River
105	Anderson, John B. & Edith	2281DCR	DEC	---	1/1/1858	SE	SE	31	13N	19E	DO	2	258.00	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	2281DCR	DEC	---	1/1/1858	SW	SE	31	13N	19E	DO	2	361.62	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	2281DCR	DEC	---	1/1/1858	SW	SE	31	13N	19E	DO	2	1321.38	---	DEC	East Fork Carson River
105	Herbig, Anna; Herbig, Annaliese; Herbig, Herman H.	231DCR	DEC	---	1/1/1858	SE	SE	23	13N	19E	DO	2	190.40	---	DEC	East Fork Carson River
105	Nature Conservancy	231DCR	DEC	---	1/1/1858	SE	SE	23	13N	19E	DO	2	2.83	---	DEC	East Fork Carson River
105	Timber-Strategic	231DCR	DEC	---	1/1/1858	SE	SE	23	13N	19E	DO	2	2.97	---	DEC	East Fork Carson River
105	Black Dumps	231DCR	DEC	---	1/1/1858	NE	SW	32	13N	20E	DO	2	34.00	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	231DCR	DEC	---	1/1/1858	NE	SW	32	13N	20E	DO	2	41.00	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	231DCR	DEC	---	1/1/1858	NE	SW	32	13N	20E	DO	2	41.00	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	231DCR	DEC	---	1/1/1858	NE	SW	32	13N	20E	DO	2	41.00	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	231DCR	DEC	---	1/1/1858	NE	SW	32	13N	20E	DO	2	160.04	---	DEC	East Fork Carson River
105	Kimmerling, Margery A.; Kimmerling, Robert A.	274DCR	DEC	---	1/1/1858	NW	NE	32	12N	20E	DO	5	21.30	---	DEC	West Fork Carson River
105	Allagretti, Joseph B. & Helen J.	5701DCR	DEC	---	1/1/1858	SW	SW	20	12N	20E	DO	5	74.80	---	DEC	West Fork Carson River
105	Cooner, Clay Glenn & Alisa Kimberly Gunn, Elizabeth M.	5801DCR	DEC	---	1/1/1858	SW	SW	20	12N	20E	DO	5	0.40	---	DEC	West Fork Carson River
105	Gunn, Elizabeth M.	5801DCR	DEC	---	1/1/1858	NW	SW	20	12N	20E	DO	5	11.20	---	DEC	West Fork Carson River
105	Kimmerling, Margery A.; Kimmerling, Robert A.	5801DCR	DEC	---	1/1/1858	NW	SW	20	12N	20E	DO	5	89.20	---	DEC	West Fork Carson River
105	Serman Family Limited Partnership	5821DCR	DEC	---	1/1/1858	SE	NE	12	12N	19E	DO	5	113.00	---	DEC	West Fork Carson River
105	H. F. Dauberg Land And Livestock Co.	6010DCR	DEC	---	1/1/1858	SW	SW	36	13N	19E	DO	5	205.00	---	DEC	West Fork Carson River
105	H. F. Dauberg Land And Livestock Co.	5001DCR	DEC	---	1/1/1858	SE	SW	36	13N	19E	DO	5	16.00	---	DEC	West Fork Carson River
105	Kimmerling, Margery A.; Kimmerling, Robert A.; Ledbetter, Jessica L.	502DCR	DEC	---	1/1/1858	NW	NW	29	12N	20E	DO	5	79.00	---	DEC	West Fork Carson River
105	Dressler, Ann E.	524DCR	DEC	---	1/1/1858	NW	NW	29	12N	20E	DO	5	72.00	---	DEC	West Fork Carson River
105	Phin Eagle Ranch, LLC	6051DCR	DEC	---	1/1/1858	NW	NW	29	12N	20E	DO	5	1.47	---	DEC	West Fork Carson River
105	Reaman, Hilari L. & Evi Page, Irlon E.	6053DCR	DEC	---	1/1/1858	NW	NW	29	12N	20E	DO	5	8.83	---	DEC	West Fork Carson River
105	Page, Irlon E.	6053DCR	DEC	---	1/1/1858	NW	NW	29	12N	20E	DO	5	10.00	---	DEC	West Fork Carson River
105	Page, Irlon E.	6053DCR	DEC	---	1/1/1858	NW	NW	29	12N	20E	DO	5	6.50	---	DEC	West Fork Carson River
105	Page, Irlon E.	6053DCR	DEC	---	1/1/1858	NW	NW	29	12N	20E	DO	5	7.80	---	DEC	West Fork Carson River
105	Kimmerling, Margery A.; Kimmerling, Robert A.	6054DCR	DEC	---	1/1/1858	NW	NW	29	12N	20E	DO	5	7.80	---	DEC	West Fork Carson River
105	Stonson, Dorothy B.	6054DCR	DEC	---	1/1/1858	NW	NW	29	12N	20E	DO	5	10.70	---	DEC	West Fork Carson River
105	Cranfill, Patricia R.; Johnson, Marilee O'Shaughnessy; William P. Quiry, Phyllis Tomelin, Debra	534DCR	DEC	---	1/1/1858	SE	NW	13	12N	19E	DO	5	20.00	---	DEC	West Fork Carson River
105	H. F. Dauberg Land And Livestock Co.	604DCR	DEC	---	1/1/1858	SE	SE	35	12N	19E	DO	5	40.00	---	DEC	West Fork Carson River
105	H. F. Dauberg Land And Livestock Co.	653DCR	DEC	---	1/1/1858	SE	SE	35	12N	19E	DO	5	147.00	---	DEC	West Fork Carson River
105	Streck, Ronald	602DCR	DEC	---	1/1/1858	NE	NW	2	13N	19E	DO	2	27.80	---	DEC	Carson River
105	Phin Eagle Ranch, LLC	75517	10543	611DCR	1/1/1859	NW	NW	29	12N	20E	DO	5	135.30	---	DEC	West Fork Carson River
105	J And S Land And Cattle Company, LLC	75547	10544	611DCR	1/1/1859	NW	NW	29	12N	20E	DO	5	15.49	---	DEC	West Fork Carson River

Prepared by Resource Concepts, Inc. Page 11 of 45 Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Vale Reversible Trust Of 1/4/2011	70647	DEC	01/1/2011	1/1/1859	NW	NW	29	12N	20E	DO	5	12.50	---	DEC	West Fork Carson River
105	Park Ranch Holdings, LLC	430379	RFP	4/31/2011	1/1/1859	NE	SE	24	13N	19E	DO	2	90.00	---	IRR	East Fork Carson River
105	U.S.A. (Trust For The Washoe Tribe)	430383	DEC	---	1/1/1859	SE	SE	23	13N	20E	DO	2	105.00	---	DEC	East Fork Carson River
105	Nature Conservancy	430384	DEC	---	1/1/1859	SE	SE	23	13N	19E	DO	2	65.22	---	DEC	East Fork Carson River
105	Frank Settlement North, LLC	430385	DEC	---	1/1/1859	SE	SE	24	13N	19E	DO	2	81.86	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	430386	DEC	---	1/1/1859	NE	SW	24	13N	20E	DO	2	97.00	---	DEC	East Fork Carson River
105	Vale Reversible Trust Of 1/4/2011	430387	DEC	---	1/1/1859	NE	SW	32	13N	20E	DO	2	33.00	---	DEC	West Fork Carson River
105	Bronx, Michael R & Debra L	430388	DEC	---	1/1/1859	NW	NW	29	12N	20E	DO	2	3.08	---	DEC	West Fork Carson River
105	West Fork Carson River	430389	DEC	---	1/1/1859	NW	NW	29	12N	20E	DO	2	33.00	---	DEC	West Fork Carson River
105	West Fork Carson River	430390	DEC	---	1/1/1859	NE	NW	19	12N	20E	DO	2	104.00	---	DEC	West Fork Carson River
105	Drussler, Fred H & Margaret, Scoss, Alex, Scoss, Eugene W	440123	DEC	---	1/1/1859	NW	SW	12	12N	19E	DO	5	65.00	---	DEC	West Fork Carson River
105	PKK Ranch, LLC	450124	DEC	---	1/1/1859	SE	NE	2	12N	19E	DO	5	357.00	---	DEC	West Fork Carson River
105	Rochin, C Ranch, LLC	460240	5447	21/01/2011	1/1/1860	NW	SW	4	12N	20E	DO	2	154.04	---	IRR	East Fork Carson River
105	Millichap Family Trust	460241	5447	21/01/2011	1/1/1860	NW	SW	4	12N	20E	DO	2	76.45	---	IRR	East Fork Carson River
105	The Gary B. Casseel and Claudia A. Casseel Trust	460242	5442	21/01/2011	1/1/1860	NW	SW	4	12N	20E	DO	2	44.82	---	IRR	East Fork Carson River
105	Bentley Family Limited Partnership	465241	5442	21/01/2011	1/1/1860	NW	SW	4	12N	20E	DO	2	20.79	---	IRR	East Fork Carson River
105	Bentley Family Limited Partnership	465242	5445	4/31/2011	1/1/1860	SW	SW	24	12N	20E	DO	2	5.02	---	IRR	Carson River
105	Bentley Family Limited Partnership	465243	5446	4/31/2011	1/1/1860	SW	SW	24	12N	20E	DO	2	40.10	---	IRR	Carson River
105	Bentley Family Limited Partnership	465244	5442	4/31/2011	1/1/1860	SW	SW	24	12N	20E	DO	2	40.10	---	IRR	Carson River
105	Bentley Family Limited Partnership	465245	5442	4/31/2011	1/1/1860	SW	SW	24	12N	20E	DO	2	172.39	---	IRR	Carson River
105	Colver Lading Trust	33441	16550	24/01/2011	1/1/1860	NE	SW	24	12N	20E	DO	2	38.69	---	IRR	Carson River
105	Lowrey E Recte Trust	33442	16550	24/01/2011	1/1/1860	NE	SW	24	12N	20E	DO	2	6.55	---	DEC	East Fork Carson River
105	Howard and Alicia Charles Trust	33443	16550	24/01/2011	1/1/1860	NE	SW	24	12N	20E	DO	2	5.88	---	DEC	East Fork Carson River
105	Perkins, Lomita	33444	16550	24/01/2011	1/1/1860	NE	SW	24	12N	20E	DO	2	3.80	---	DEC	East Fork Carson River
105	Charney, Howard & Alicia Trust	33445	16550	24/01/2011	1/1/1860	NE	SW	24	12N	20E	DO	2	10.61	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	61144	16106	6/01/2011	1/1/1860	NE	SW	35	14N	19E	DO	6	9.23	---	IRR	Carson River
105	Luna Valley Ranch Community, Inc.	62445	16534	05/31/2011	1/1/1860	NE	SE	34	11N	19E	DO	4	290.00	---	DEC	Indian Creek-Carson R.
105	Rochin C Ranch LLC	29346	PER	21/01/2011	1/1/1860	NW	SW	4	12N	20E	DO	2	3.75	---	COM	East Fork Carson River
105	U.S.A. (Trust For Washoe Tribe)	441123	DEC	---	1/1/1860	SE	NW	23	12N	20E	DO	2	72.00	---	DEC	East Fork Carson River
105	F. Stodlock Family Revocable Trust	240124	DEC	---	1/1/1860	SE	NE	5	12N	20E	DO	2	25.00	---	DEC	East Fork Carson River
105	F. Stodlock Family Revocable Trust	240125	DEC	---	1/1/1860	SE	SE	31	13N	20E	DO	5	25.00	---	DEC	East Fork Carson River
105	Frank Settlement North, LLC	244126	DEC	---	1/1/1860	NE	NE	25	13N	20E	DO	2	65.22	---	DEC	East Fork Carson River
105	Frank Settlement Properties, LLC	244127	DEC	---	1/1/1860	NE	NE	25	13N	20E	DO	2	65.22	---	DEC	East Fork Carson River
105	Frank Settlement North, LLC	244128	DEC	---	1/1/1860	NE	SW	24	13N	19E	DO	2	8.98	---	DEC	East Fork Carson River
105	Frank Settlement Properties, LLC	244129	DEC	---	1/1/1860	NE	SW	24	13N	19E	DO	2	86.25	---	DEC	East Fork Carson River
105	Streck, Ronald	244130	DEC	---	1/1/1860	SW	SW	1	13N	19E	DO	2	3.00	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	244131	DEC	---	1/1/1860	SW	NE	32	13N	20E	DO	5	86.00	---	DEC	West Fork Carson River
105	Donald E Beatty	244132	DEC	---	1/1/1860	SW	NE	32	13N	20E	DO	5	102.00	---	DEC	West Fork Carson River
105	West Fork Carson River	244133	DEC	---	1/1/1860	NE	NW	19	12N	20E	DO	5	100.00	---	DEC	West Fork Carson River
105	Smith, Ronald M	244134	DEC	---	1/1/1860	NE	NW	19	12N	20E	DO	5	38.00	---	DEC	West Fork Carson River
105	Smith, Ronald M	244135	DEC	---	1/1/1860	NE	NW	19	12N	20E	DO	5	38.00	---	DEC	West Fork Carson River
105	U. S. A. Trust (Washoe Tribe)	61123	DEC	---	1/1/1860	SE	NW	42	12N	20E	DO	2	162.00	---	DEC	East Fork Carson River
105	Streck, Ronald	620123	DEC	---	1/1/1860	NE	NE	10	13N	19E	DO	5	16.17	---	DEC	Carson River
105	Colver Lading Trust	620124	DEC	---	1/1/1860	NE	NE	10	13N	19E	DO	5	14.18	---	DEC	Carson River
105	Trust Dated October 2, 1995	620125	DEC	---	1/1/1860	NE	NE	10	13N	19E	DO	5	1.05	---	DEC	Carson River
105	Genom Lakes Venture	620126	DEC	---	1/1/1860	NW	NE	10	13N	19E	DO	5	49.20	---	DEC	Carson River
105	Villard, Susan & Anthony	620127	DEC	---	1/1/1860	NW	NE	10	13N	19E	DO	5	7.96	---	DEC	Carson River
105	John R. Durfort And Laurie W. Weaver Reversible Trust Dated 11/7/2017	620128	DEC	---	1/1/1860	NW	NE	10	13N	19E	DO	5	0.68	---	DEC	Carson River
105	Shaber, Charlotte	620129	DEC	---	1/1/1860	NW	NE	10	13N	19E	DO	5	0.44	---	DEC	Carson River
105	Adams, Rufus W.	620130	DEC	---	1/1/1860	SW	NW	2	13N	19E	DO	6	15.99	---	DEC	Carson River
105	Streck, Ronald	620131	DEC	---	1/1/1860	NE	SW	2	13N	19E	DO	6	17.79	---	DEC	Carson River
105	David Lantry, Nevada Title Guarantee Co., Westwater Resources	71123	DEC	---	1/1/1860	NW	NW	11	13N	20E	DO	7	as decreed	---	DEC	Carson River

Prepared by Resource Concepts, Inc. Page 12 of 45 Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town Ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Meadows Bank, Nevada Title Guarantee Co., Westwater Resources	2113DCR	DEC	---	1/1/1860	NE	SW	12	15N	20E	DO	7	14.2	---	DEC	Carson River
105	David Lantry, Nevada Title Guarantee Co., Westwater Resources	2113DCR	DEC	---	1/1/1860	SE	SE	12	15N	20E	DO	7	14.2	---	DEC	Carson River
105	David Lantry, Nevada Title Guarantee Co., Westwater Resources	2113DCR	DEC	---	1/1/1860	NW	SW	34	16N	20E	DO	7	14.2	---	DEC	Carson River
105	P. Heise Land and Landstock Company	2113DCR	DEC	---	1/1/1860	SE	SE	23	15N	20E	DO	2	75.72	---	DEC	East Fork Carson River
105	Washoe Tribe Of Nevada And California, (See Trustee)	2113DCR	DEC	70387, 680 DCR	1/1/1860	SE	SW	22	16N	21E	AL	1	11.60	---	DEC	Wolf Creek
105	Douglas K. And Kathleen L. Home, Co-Trustees Of The Home Family Trust Utd	2113DCR	DEC	---	1/1/1861	SE	SE	25	14N	19E	DO	6	179.00	---	DEC	Carson River
105	Benjane Access Limited Partnership	2113DCR	DEC	---	1/1/1861	SE	NE	1	12N	19E	DO	2	86.36	---	DEC	East Fork Carson River
105	Joseph R. Murray and Meil Murray, H & W	2113DCR	DEC	---	1/1/1861	SE	NE	1	12N	19E	DO	2	9.98	---	DEC	East Fork Carson River
105	Duanna E. Apalquin and Anthony B. Cozzi	2113DCR	DEC	---	1/1/1861	SE	NE	1	12N	19E	DO	2	9.94	---	DEC	East Fork Carson River
105	Frank Settlemyer North, LLC	2113DCR	DEC	---	1/1/1861	NE	SW	24	13N	19E	DO	2	64.90	---	DEC	East Fork Carson River
105	Frank Settlemyer North, LLC	2113DCR	DEC	---	1/1/1861	NE	SW	24	13N	19E	DO	2	64.90	---	DEC	East Fork Carson River
105	Hussman Land & Livestock Company	2113DCR	DEC	---	1/1/1861	NW	NW	20	12N	20E	DO	2	110.00	---	DEC	East Fork Carson River
105	Park, W. Brooks	2113DCR	DEC	---	1/1/1861	SE	SE	24	11N	20E	AL	2	27.50	---	DEC	Bryant Creek
105	Park, W. Brooks	2113DCR	DEC	---	1/1/1861	SE	SE	24	11N	20E	AL	2	27.50	---	DEC	Bryant Creek
105	Diamond X Ranch, LLC	2113DCR	DEC	---	1/1/1861	SE	SE	24	11N	20E	DO	2	37.70	---	DEC	Bryant Creek
105	Diamond X Ranch, LLC	2113DCR	DEC	---	1/1/1861	NE	NE	6	10N	21E	DO	1	41.70	---	DEC	Bryant Creek
105	Dressler, Fred H.	2113DCR	DEC	---	1/1/1861	NW	NE	5	11N	20E	DO	3	20.00	---	DEC	West Fork Carson River
105	Dressler, Fred H.	2113DCR	DEC	---	1/1/1861	SW	SE	32	12N	20E	DO	5	48.00	---	DEC	West Fork Carson River
105	Thunderbird Ranch	2113DCR	DEC	---	1/1/1861	SE	SW	29	12N	20E	DO	3	74.40	---	DEC	West Fork Carson River
105	Neddemrip, Kent R.; Nodderney, Mark W.	2113DCR	DEC	---	1/1/1861	SE	NW	19	12N	20E	DO	5	48.00	---	DEC	West Fork Carson River
105	Settlemyer, Arnold A.; Settlemyer, Grace A.; USKWS	2113DCR	DEC	---	1/1/1861	SE	SE	23	12N	20E	DO	2	105.00	---	DEC	East Fork Carson River
105	Settlemyer, Arnold A.; Settlemyer, Grace A.; USKWS	2113DCR	DEC	---	1/1/1861	SE	SE	23	12N	20E	DO	2	105.00	---	DEC	East Fork Carson River
105	Bobbi L. & In.	2113DCR	DEC	---	1/1/1861	SE	SE	23	12N	20E	DO	2	37.88	---	DEC	East Fork Carson River
105	Pruch, Robert L. & Margaret	2113DCR	DEC	---	1/1/1861	SE	SE	23	12N	20E	DO	2	1.89	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	2244DCR	DEC	43825, 685DCR	1/1/1862	SW	SW	24	14N	20E	DO	2	130.00	---	IRR	Carson River
105	Hohlbeck Beef and Cattle Company	2244DCR	DEC	6791DCR	1/1/1862	NW	SE	35	14N	19E	DO	6	41.50	---	DEC	Carson River
105	Charmey, Howard & Alida Trust	2244DCR	DEC	6791DCR	1/1/1862	NW	SE	35	14N	19E	DO	6	16.10	---	DEC	Carson River
105	D Diamond C Trust Dated May 14, 2013	2244DCR	DEC	6791DCR	1/1/1862	NW	SE	35	14N	19E	DO	6	16.10	---	DEC	Carson River
105	Hohlbeck Beef and Cattle Company	2244DCR	DEC	6791DCR	1/1/1862	NW	SE	35	14N	19E	DO	6	60.30	---	DEC	Carson River
105	Chapin Living Trust Dated 4/27/1999	2244DCR	DEC	---	1/1/1862	NE	NE	9	12N	20E	DO	2	38.73	---	DEC	Carson River
105	Douglas Strossman	2244DCR	DEC	---	1/1/1862	NE	NE	9	12N	20E	DO	2	52.27	---	DEC	East Fork Carson River
105	Strossman, Douglas	2244DCR	DEC	---	1/1/1862	NE	NE	9	12N	20E	DO	2	29.00	---	DEC	East Fork Carson River
105	Douglas K. And Kathleen L. Home, Co-Trustees Of The Home Family Trust Utd	2113DCR	DEC	---	1/1/1862	SE	NE	1	12N	19E	DO	2	40.00	---	DEC	East Fork Carson River
105	Frank Settlemyer North, LLC	2441DCR	DEC	---	1/1/1862	NE	SW	24	13N	19E	DO	2	57.00	---	DEC	East Fork Carson River
105	Villard, Susan & Anthony	2441DCR	DEC	---	1/1/1862	SW	SE	1	13N	19E	DO	2	38.32	---	DEC	East Fork Carson River
105	The Kaufman Family Trust	2441DCR	DEC	---	1/1/1862	SW	SE	1	13N	19E	DO	2	34.68	---	DEC	East Fork Carson River
105	Alpine County	2441DCR	DEC	---	1/1/1862	NE	NW	20	10N	20E	AL	1	47.50	---	DEC	Hut Spring Creek
105	F. Heron Land & Livestock Co.	2441DCR	DEC	---	1/1/1862	NW	NW	9	13N	20E	DO	2	201.00	---	DEC	East Fork Carson River
105	Bosom, Milton E. (Sibleck Ranch)	2441DCR	DEC	---	1/1/1862	NW	NW	9	13N	20E	DO	2	201.00	---	DEC	East Fork Carson River
105	Bosom, Milton E. (Sibleck Ranch)	2441DCR	DEC	---	1/1/1862	NW	NW	9	13N	20E	DO	2	201.00	---	DEC	East Fork Carson River
105	Vidler Water Company, Inc.	2441DCR	DEC	---	1/1/1862	NW	NE	22	10N	20E	AL	1	1.60	---	DEC	Marshallville Creek
105	Brewer, Roland And Joan P.	2441DCR	DEC	---	1/1/1862	NW	NE	22	10N	20E	DO	2	67.66	---	DEC	East Fork Carson River
105	Nevada Northwest LLC	2441DCR	DEC	---	1/1/1862	NW	NE	32	13N	20E	DO	2	12.41	---	DEC	East Fork Carson River
105	Cooper, Clay, Glenn & Alisa Kimberly	2441DCR	DEC	---	1/1/1862	NW	NE	32	13N	20E	DO	2	1.93	---	DEC	East Fork Carson River
105	Russell, Robert W. and Pam	2441DCR	DEC	---	1/1/1862	NW	NE	32	13N	20E	DO	5	20.00	---	DEC	East Fork Carson River
105	Allegretti, Joseph B. & Helen J.	2441DCR	DEC	---	1/1/1862	NW	NE	32	13N	20E	DO	5	49.28	---	DEC	East Fork Carson River
105	Kunmerling, Robert A. & Margery A.	2441DCR	DEC	---	1/1/1862	NW	NE	32	13N	20E	DO	5	16.63	---	DEC	East Fork Carson River
105	Seessa, Alex, Soessa, Eugene	2441DCR	DEC	---	1/1/1862	NW	NW	29	12N	20E	DO	5	11.00	---	DEC	East Fork Carson River
105	John R. Dufort And Laurie W. Weaver Revocable Trust Dated 3/17/2017	2441DCR	DEC	---	1/1/1862	SW	NW	11	13N	19E	DO	2	24.07	---	DEC	Carson River
105	The Kaufman Family Trust	2441DCR	DEC	---	1/1/1862	SW	NW	11	13N	19E	DO	2	3.91	---	DEC	Carson River
105	Villard, Susan & Anthony	2441DCR	DEC	---	1/1/1862	SW	NW	11	13N	19E	DO	2	50.02	---	DEC	Carson River
105	Ganderle Ranch, LLC	2441DCR	DEC	---	1/1/1862	NW	SE	35	14N	19E	DO	6	100.45	---	DEC	Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qt-Qt	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Marriage, Jay D.	6904DKR	DEC	---	1/1/8662	NW	SE	35	14N	19E	DO	6	32.42	---	DEC	Carson River
105	Chirnev 1990 Trust	6904DKR	DEC	---	1/1/8662	NW	SE	35	14N	19E	DO	6	32.42	---	DEC	Carson River
105	Streck, Ronald	6904DKR	DEC	---	1/1/8662	NW	SE	35	14N	19E	DO	6	4.47	---	DEC	Carson River
105	Hobbrook Beef and Cattle Company	6904DKR	DEC	---	1/1/8662	NW	SE	35	14N	19E	DO	6	4.07	---	DEC	Carson River
105	Park Ranch Holdings, LLC	6904DKR	DEC	---	1/1/8662	SE	SE	23	12N	20E	DO	2	55.08	---	DEC	East Fork Carson River
105	Midway Town	6904DKR	DEC	---	1/1/8662	SE	SE	23	12N	20E	DO	2	24.62	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	4624B	IFL	43856, 684DKR	1/1/8663	SW	SW	24	12N	20E	DO	2	115.00	---	IFL	Carson River
105	Sierra Nevada SW Enterprises, LTD	4624B	PER	146DKR	1/1/8663	NE	NE	35	13N	20E	DO	2	27.09	---	IFL	Carson River
105	Jacobson Family Trust	4624B	PER	146DKR	1/1/8663	NE	NE	35	13N	20E	DO	2	6.78	---	IFL	Carson River
105	Sierra Nevada SW Enterprises	6043B	RFA	496DKR	1/1/8663	NE	SW	10	12N	20E	DO	2	---	---	DEC	East Fork Carson River
105	Wild Harmony Water, LLC	146DKR	DEC	---	1/1/8663	NE	SW	10	12N	20E	DO	2	---	---	DEC	East Fork Carson River
105	Jacobson Family 1982 Trust	146DKR	DEC	---	1/1/8663	NE	SE	10	12N	20E	DO	2	55.64	---	DEC	East Fork Carson River
105	Valley Water Company	146DKR	DEC	---	1/1/8663	NE	SE	10	12N	20E	DO	2	33.47	---	DEC	East Fork Carson River
105	Sierra Nevada SW Enterprises, Ltd	146DKR	DEC	---	1/1/8663	NE	SE	10	12N	20E	DO	2	14.05	---	DEC	East Fork Carson River
105	Jacobson, Terry M. & Linda	146DKR	DEC	---	1/1/8663	NE	SE	10	12N	20E	DO	2	20.00	---	DEC	East Fork Carson River
105	River Tree Ranch, Ltd, Wrenhold, Harry F., Wrenhold, Richard H.	381DKR	DEC	---	1/1/8663	NE	SW	10	12N	20E	DO	2	15.00	---	DEC	East Fork Carson River
105	Gilbert, Michael C. and Angel Kerr	6044DKR	DEC	---	1/1/8663	SW	NW	5	12N	20E	DO	2	42.00	---	DEC	East Fork Carson River
105	Frank Settlementer North, LLC	6044DKR	DEC	---	1/1/8663	NE	SW	24	13N	19E	DO	2	132.45	---	DEC	East Fork Carson River
105	Hilt, William And Joanna Molares	6044DKR	DEC	---	1/1/8663	NE	SW	24	13N	19E	DO	2	61.53	---	DEC	East Fork Carson River
105	Carter, Richard G. and Jenna K.	6044DKR	DEC	---	1/1/8663	NE	SW	24	13N	19E	DO	2	15.04	---	DEC	East Fork Carson River
105	River Tree Ranch, Ltd.	6044DKR	DEC	---	1/1/8663	NE	SW	19	12N	20E	DO	2	29.00	---	DEC	East Fork Carson River
105	Cordis, Chris	6044DKR	DEC	---	1/1/8663	SE	SW	9	12N	20E	DO	2	15.00	---	DEC	East Fork Carson River
105	Vale Revocable Trust Of 1/8/2011	6044DKR	DEC	---	1/1/8663	SW	SE	18	11N	20E	DO	4	40.44	---	DEC	West Fork Carson River
105	Prime Eagle Ranch, LLC	6044DKR	DEC	---	1/1/8663	SW	SE	18	11N	20E	DO	4	29.56	---	DEC	West Fork Carson River
105	Amendat H.H.I.	6044DKR	DEC	---	1/1/8663	NE	NW	8	11N	20E	DO	5	75.00	---	DEC	West Fork Carson River
105	Valley Water Company	6044DKR	DEC	---	1/1/8663	NE	NE	35	13N	19E	DO	5	41.00	---	DEC	West Fork Carson River
105	Albarran, Laura	6044DKR	DEC	---	1/1/8663	NE	NE	35	13N	19E	DO	5	1.00	---	DEC	West Fork Carson River
105	Albarran, Laura	6044DKR	DEC	---	1/1/8663	SE	SE	35	13N	19E	DO	5	25.00	---	DEC	West Fork Carson River
105	Park Ranch Holdings, LLC	6044DKR	DEC	---	1/1/8663	SE	SE	35	13N	19E	DO	5	13.67	---	DEC	West Fork Carson River
105	Bentley Family Limited Partnership	6044DKR	PER	324DKR	1/1/8664	NE	SE	25	12N	20E	DO	2	14.02	---	DEC	Carson River
105	Brown, Michael R. & Debra L.	6044DKR	PER	606DKR	1/1/8664	NW	NW	29	12N	20E	DO	5	14.02	---	DEC	West Fork Carson River
105	J And S Land And Cattle Company, LLC	6044DKR	PER	606DKR	1/1/8664	NW	NW	29	12N	20E	DO	5	14.02	---	DEC	West Fork Carson River
105	Winkler, David D.	6044DKR	PER	606DKR	1/1/8664	NW	NW	29	12N	20E	DO	5	14.02	---	DEC	West Fork Carson River
105	George Family Trust Dated July 1, 2002	6044DKR	PER	606DKR	1/1/8664	NW	NW	29	12N	20E	DO	5	20.00	---	DEC	West Fork Carson River
105	Bentley Family Limited Partnership	6044DKR	PER	606DKR	1/1/8664	NW	NW	29	12N	20E	DO	5	17.32	---	DEC	West Fork Carson River
105	J And S Land And Cattle Company, LLC	6044DKR	PER	606DKR	1/1/8664	NW	NW	29	12N	20E	DO	5	135.39	---	DEC	West Fork Carson River
105	Bentley Family Limited Partnership	6044DKR	PER	606DKR	1/1/8664	NW	NW	29	12N	20E	DO	5	135.39	---	DEC	West Fork Carson River
105	Bentley Family Limited Partnership	6044DKR	PER	606DKR	1/1/8664	NW	NW	29	12N	20E	DO	5	135.39	---	DEC	West Fork Carson River
105	Wild Harmony Water, LLC	6044DKR	RFA	209DKR	1/1/8664	SW	SE	5	12N	20E	DO	2	---	---	DEC	Carson River
105	F. Heise Land and Livestock Company	6044DKR	RFA	209DKR	1/1/8664	SW	SE	5	12N	20E	DO	2	---	---	DEC	Carson River
105	Bing, D. Gerald Jr.	6044DKR	DEC	---	1/1/8664	NW	SE	19	12N	20E	DO	2	25.00	---	DEC	East Fork Carson River
105	Herbie, Herman And Annelise	6044DKR	DEC	---	1/1/8664	NW	SE	19	12N	20E	DO	2	9.16	---	DEC	East Fork Carson River
105	Valley Water Company	6044DKR	DEC	---	1/1/8664	NW	SE	19	12N	20E	DO	2	9.84	---	DEC	East Fork Carson River
105	Frederick, C. R.	6044DKR	DEC	---	1/1/8664	NW	SE	19	12N	20E	DO	2	41.00	---	DEC	East Fork Carson River
105	Bentley Family LP	6044DKR	DEC	---	1/1/8664	NW	SE	19	12N	20E	DO	2	12.00	---	DEC	East Fork Carson River
105	Douglas County Grammar School	6044DKR	DEC	---	1/1/8664	NW	SE	19	12N	20E	DO	2	4.80	---	DEC	East Fork Carson River
105	Valley Water Company	6044DKR	DEC	---	1/1/8664	NW	SE	19	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	Hellmeyer, Roy R. Edith	6044DKR	DEC	---	1/1/8664	NW	SE	19	12N	20E	DO	2	12.40	---	DEC	East Fork Carson River
105	Frickle, Gordon A.; Frickle, Mary Jo Anne	656DKR	DEC	---	1/1/8664	NE	SW	10	12N	20E	DO	2	11.54	---	DEC	East Fork Carson River
105	Frickle, Gordon A.; Frickle, Mary Jo Anne	604DKR	DEC	---	1/1/8664	NE	NE	9	12N	20E	DO	2	15.00	---	DEC	East Fork Carson River
105	Henningsen, John C.; Henningsen, Virginia G.	604DKR	DEC	---	1/1/8664	SW	SE	4	12N	20E	DO	2	40.00	---	DEC	East Fork Carson River
105	Gunsberg, Chris H.	604DKR	DEC	---	1/1/8664	NW	SE	6	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	F. Heise Land and Livestock Co.	604DKR	IFL	---	1/1/8664	SE	NE	1	12N	19E	DO	2	445.00	---	DEC	East Fork Carson River
105	Bergesen, John E. and Stacy K.	604DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	9.66	---	DEC	East Fork Carson River
105	Bering Acres, A Limited Partnership	604DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	20.00	---	DEC	East Fork Carson River
105	Rush, Robert A. and Eleanor F.	604DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	10.50	---	DEC	East Fork Carson River
105	Home, Douglas K. and Kathleen L.	604DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	36.79	---	DEC	East Fork Carson River
105	James, Thomas E. and Patricia L.	604DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	14.48	---	DEC	East Fork Carson River
105	Mays, Kyle W. and Leslie K.	604DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	10.04	---	DEC	East Fork Carson River
105	Reinhart, Howard J.	604DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	9.99	---	DEC	East Fork Carson River
105	Stewart, Jack R. and Susan K.	604DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	4.83	---	DEC	East Fork Carson River
105	Woodward, Suzanne E.	604DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	10.00	---	DEC	East Fork Carson River

Prepared by Resource Concepts, Inc. Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Weslow Family 2008 Revocable Trust	2403DKR	DEC	---	1/1/8664	SE	NE	1	12N	20E	DO	2	10.02	---	DEC	East Fork Carson River
105	Young John M. and Lauren	2103DKR	DEC	---	1/1/8664	SE	NE	1	12N	19E	DO	2	4.83	---	DEC	East Fork Carson River
105	Galepi Land And Livestock	293DKR	DEC	---	1/1/8664	NW	NE	25	13N	20E	DO	2	150.00	---	DEC	East Fork Carson River
105	White, John Henry & Wanda G.	290DKR	DEC	---	1/1/8664	NW	SE	9	12N	20E	DO	2	85.00	---	DEC	East Fork Carson River
105	F. Heise Land and Livestock Co.	290DKR	DEC	---	1/1/8664	SE	SW	9	12N	20E	DO	2	100.00	---	DEC	East Fork Carson River
105	Crouch Family 2001 Trust	294DKR	DEC	---	1/1/8664	SE	SW	9	12N	20E	DO	2	19.84	---	DEC	East Fork Carson River
105	Kidman, Carl W. and Amina H.	291DKR	DEC	---	1/1/8664	SE	SW	9	12N	20E	DO	2	0.16	---	DEC	East Fork Carson River
105	Cordes, Chris	296DKR	DEC	---	1/1/8664	SE	SW	9	12N	20E	DO	2	65.00	---	DEC	East Fork Carson River
105	Peter & Lisa Simont, William & Mary Shinnick, M.D. & Debra Simont	242DKR	DEC	---	1/1/8664	SE	SE	7	12N	20E	DO	2	7.00	---	DEC	East Fork Carson River
105	Shinnick, M.D. & Debra Simont	294DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	87.66	---	DEC	East Fork Carson River
105	Phelan, Michael J. & John	294DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	2.62	---	DEC	East Fork Carson River
105	Town of Mirabeau	294DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	0.09	---	DEC	East Fork Carson River
105	Valley Water Company	294DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	11.21	---	DEC	East Fork Carson River
105	Wood, Rick B. and Marc J.	294DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	9.05	---	DEC	East Fork Carson River
105	MacK Land & Cattle Company	296DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	30.40	---	DEC	East Fork Carson River
105	Pecorilla, Angelo & Elaine	296DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	18.80	---	DEC	East Fork Carson River
105	Rivertree Ranch, LTD	296DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	11.56	---	DEC	East Fork Carson River
105	Gilbert, Michael C.	296DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	23.24	---	DEC	East Fork Carson River
105	** Savage, Frances F.	292DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Savage, John	292DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Womack, Barbara	292DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Womack, Roy	292DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Rachall, Troy Lester and Salls Jo	293DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	0.06	---	DEC	East Fork Carson River
105	DeLigdel Family Trust	293DKR	DEC	---	1/1/8664	SE	SE	4	12N	20E	DO	2	1.44	---	DEC	East Fork Carson River
105	River Tree Ranch, LLC	294DKR	DEC	---	1/1/8664	NW	NW	4	12N	20E	DO	2	4.80	---	DEC	East Fork Carson River
105	Holliman, Roy S. & Judith	294DKR	DEC	---	1/1/8664	NW	NW	4	12N	20E	DO	2	13.72	---	DEC	East Fork Carson River
105	Donagis County School District	294DKR	DEC	---	1/1/8664	NW	NW	4	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	Neddenhain, Mark W.	294DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	141.00	---	DEC	West Fork Carson River
105	Neddenhain, Kent R.	294DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	81.18	---	DEC	West Fork Carson River
105	Neddenhain, Lisa	294DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	26.86	---	DEC	West Fork Carson River
105	Mac Ouaric, Ronald J. And Marjory A.	294DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	19.58	---	DEC	West Fork Carson River
105	Valley Water Company	294DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	3.48	---	DEC	West Fork Carson River
105	Gausberg, Chris H., Ellen H., Fred H., Chris H. Jr.	290DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	116.80	---	DEC	West Fork Carson River
105	The S. H. Bourne 1994 Trust, Dated 11/16/04	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	37.20	---	DEC	West Fork Carson River
105	Alern Living Trust 2008	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	133.59	---	DEC	West Fork Carson River
105	Burke, John And Kim	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	2.50	---	DEC	West Fork Carson River
105	Daniel Piccioni Revocable Trust Dated 11/7/2016	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	1.56	---	DEC	West Fork Carson River
105	Phine Eagle Ranch, LLC	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	81.96	---	DEC	West Fork Carson River
105	Garratt, Christopher Joseph	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	1.79	---	DEC	West Fork Carson River
105	KSPS Living Trust Dated 2/28/2017	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	2.23	---	DEC	West Fork Carson River
105	Philer, Kenneth and Pamela	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	0.78	---	DEC	West Fork Carson River
105	Land Family Limited Partnership	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	32.54	---	DEC	West Fork Carson River
105	McCarthy Family Trust, Dated 6/13/1989	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	1.50	---	DEC	West Fork Carson River
105	Michelle M Wayne Revocable Living Trust	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	0.60	---	DEC	West Fork Carson River
105	Minter, Gary D and Lisa M	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	1.20	---	DEC	West Fork Carson River
105	Nunne, Robert and Cheryl	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	1.56	---	DEC	West Fork Carson River
105	Shocke, Robert D. and Wanda D.	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	10.40	---	DEC	West Fork Carson River
105	Sullivan, Maureen	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	17.72	---	DEC	West Fork Carson River
105	Sunshine Ranch Nevada LLC	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	25.36	---	DEC	West Fork Carson River
105	The Terrence and Karen Resno 2005 Family Trust	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	33.28	---	DEC	West Fork Carson River
105	Tuoto, Scott A and Elizabeth K.	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	17.07	---	DEC	West Fork Carson River
105	Valley Water Company	240DKR	DEC	---	1/1/8664	SW	SE	18	11N	20E	DO	4	19.47	---	DEC	West Fork Carson River
105	Neddenhain, Kent R.	291DKR	DEC	---	1/1/8664	NW	NE	19	12N	20E	DO	5	49.00	---	DEC	West Fork Carson River
105	Anderson, Ella (Heirs)	293DKR	DEC	---	1/1/8664	NW	NE	19	12N	20E	DO	5	199.50	---	DEC	West Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD River Segment	Acres	AFA	Use	Source Description
105	** Cervenak, Robert F.	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Fitz, George	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Helboisick, Edna A.	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Helboisick, John H.	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Isaac, Alice L.	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Isaac, Edward	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Mashamian, Alfred	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Makhautin, Anna	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Middough, Vance A.	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Mullins, Robert W.	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Rosser, Wallace A.	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Sullivan Edward P.	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Wheat, Robert	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	** Wheat, Twyjala	268DKR	DEC	---	1/1/865	NE	SE	8	12N	20E	2	---	DEC	East Fork Carson River
105	Borlis, Ted And Diana	422DKR	DEC	---	1/1/865	NE	NE	5	12N	20E	2	---	DEC	East Fork Carson River
105	Hussman, Mathilda Jensen	422DKR	DEC	---	1/1/865	NE	NE	5	12N	20E	2	---	DEC	East Fork Carson River
105	Vidler Water Company	422DKR	DEC	---	1/1/865	NE	NE	5	12N	20E	2	---	DEC	East Fork Carson River
105	Gaird, Christopher Joseph	422DKR	DEC	---	1/1/865	SW	SE	15	11N	20E	4	---	DEC	West Fork Carson River
105	Fuller, Kenneth and Pamela	422DKR	DEC	---	1/1/865	SW	SE	15	11N	20E	4	---	DEC	West Fork Carson River
105	KNPS Mining Trust Dated 4/29/1917	422DKR	DEC	---	1/1/865	SW	SE	15	11N	20E	4	---	DEC	West Fork Carson River
105	Sherrill Holdings Group Revocable Living Trust, Sherrill, 1916, TPE	540DKR	DEC	---	1/1/865	SW	SE	18	11N	20E	4	---	DEC	West Fork Carson River
105	Vidler Water Company	540DKR	DEC	---	1/1/865	SW	SE	18	11N	20E	4	---	DEC	West Fork Carson River
105	Thunderbird Ranch Consortium	540DKR	DEC	---	1/1/865	SW	SE	18	11N	20E	4	---	DEC	West Fork Carson River
105	Merna Sue Wilson Trust Dated 8/2/2003	550DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Mortin Gardner (1/2 UDI), Tom Long and Jill Long H&W (1/2 UDI)	550DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Mercutio, Wayne and Jill Thran	550DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Bulfer, Hervey E. and Evelyn E.	550DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Maize Marine, LLC	550DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	David and Lisa Graham Trust	550DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Michelle M Mayne Revocable Living Trust	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Daniel Piceman Revocable Trust Dated 11/7/2016	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Robert and Cheryl Neamy	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	McCarthy Family Trust, Dated 6/13/1989	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Sierra Holdings Group Revocable Living Trust, Sierra, 1916, TPE	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Fuller, Kenneth and Pamela	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Thunderbird Ranch Consortium	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Eck, Amag, Eck, Harold E.	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Darrel and Suzanne Huff Trust	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Hansler, Helen H.	560DKR	DEC	---	1/1/865	NE	SW	5	11N	20E	5	---	DEC	West Fork Carson River
105	Hussman Land & Cattle Company Dated November 9, 1990	560DKR	DEC	---	1/1/866	NE	SW	23	12N	20E	2	---	DEC	East Fork Carson River
105	Rinaza, Myron M.	560DKR	DEC	---	1/1/866	NE	SW	23	12N	20E	2	---	DEC	East Fork Carson River
105	Gilbert, Michael C. and Aiged Kerr	560DKR	DEC	---	1/1/866	NE	SW	23	12N	20E	2	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town-ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Bentley Family Limited Partnership	26424	PER	60674, 3927DKR	1/1/1866	NW	SE	10	12N	20E	DO	2	12.40	---	IRR	East Fork Carson River
105	Riassa, Morgan M.	348DKR	DEC	---	1/1/1866	NW	SE	10	12N	20E	DO	2	14.95	---	DEC	East Fork Carson River
105	Vidler Water Company	145DKR	DEC	---	1/1/1866	NW	SE	10	12N	20E	DO	2	64.90	---	DEC	East Fork Carson River
105	Stodiek, Anita T.; Stodiek, Lester L.	348DKR	DEC	---	1/1/1866	NW	SE	10	12N	20E	DO	2	9.79	---	DEC	East Fork Carson River
105	Darin Renewable Trust	3927DKR	DEC	---	1/1/1866	NE	SE	9	12N	20E	DO	2	59.84	---	DEC	East Fork Carson River
105	** Cowden, Jeanette M.	3927DKR	DEC	---	1/1/1866	NE	SE	9	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Lund, Carol E.	3927DKR	DEC	---	1/1/1866	NE	SE	9	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Lund, Walter G.	3927DKR	DEC	---	1/1/1866	NE	SE	9	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Pecorella, Angelo	3927DKR	DEC	---	1/1/1866	NE	SE	9	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Pecorella, Florine	3927DKR	DEC	---	1/1/1866	NE	SE	9	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	F. Haise Land and Livestock Co.	3927DKR	DEC	---	1/1/1866	SW	NW	6	12N	20E	DO	2	17.00	---	DEC	East Fork Carson River
105	Cowden, Jeanette M.	214DKR	DEC	---	1/1/1866	SE	NE	5	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Cowden, Jeanette M.	214DKR	DEC	---	1/1/1866	SE	NE	5	12N	20E	DO	2	26.00	---	DEC	East Fork Carson River
105	Cowden, Jeanette M.	314DKR	DEC	---	1/1/1866	SE	NE	5	12N	20E	DO	2	20.00	---	DEC	East Fork Carson River
105	F. Stodiek Family Revocable Trust	3404DKR	DEC	---	1/1/1866	SE	NE	5	12N	20E	DO	2	44.00	---	DEC	East Fork Carson River
105	Park, W. Brooks	3404DKR	DEC	---	1/1/1866	SE	NE	24	11N	20E	AL	2	8.60	---	DEC	Bryant Creek
105	Diamond X Ranch, LLC	373DKR	DEC	---	1/1/1866	SE	SE	24	11N	20E	DO	2	22.40	---	DEC	Bryant Creek
105	** Ankers, L.A.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Canatsey, R.L.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Council of Assembly of God, Inc.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dangleberg, G.F.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fleischer, M.D.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Gansberg, G.D.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hurl, P. & B.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jepsen, G.L.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Johnson, K.V.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kincaid, Ron	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Maak, R.E.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Menehey, C. C. Jr.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Minchin, B.R.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Powers, W.W.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Scarselli, G.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Seeman, Henry	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Stodiek, A. Cecil	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Summers, J.L.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Turris, A.R.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Turris, Arlen R.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Uhalde, Marie A.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Donald E. Bently	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	15.56	---	DEC	East Fork Carson River
105	H. F. Dangleberg Land And Livestock Co.	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	7.51	---	DEC	East Fork Carson River
105	Bently Family, LLC	385DKR	DEC	---	1/1/1866	NE	SW	14	12N	20E	DO	2	0.65	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qr	POD Qtr	POD Sec	POD Town ship	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Anker, Leonard & Frances	4881DKR	DEC	---	1/1/1866	NE	SW	14	12N	DO	2	0.43	---	DEC	East Fork Carson River
105	Vidler Water Company	4883DKR	DEC	---	1/1/1866	NE	SW	14	12N	DO	2	0.04	---	DEC	East Fork Carson River
105	Vidler Water Company	4927DKR	DEC	---	1/1/1866	NE	SW	14	12N	DO	2	4.99	---	DEC	East Fork Carson River
105	Anker, Leonard & Frances	4928DKR	DEC	---	1/1/1866	NE	SW	14	12N	DO	2	0.43	---	DEC	East Fork Carson River
105	Jenkins, Mildred; Thran, Lois	4931DKR	DEC	---	1/1/1866	SE	NW	13	12N	DO	3	40.00	---	DEC	West Fork Carson River
105	Fisher Feing Trust	4938DKR	DEC	---	1/1/1866	SE	NW	13	12N	DO	3	1.60	---	DEC	West Fork Carson River
105	Mildred Hoover Trust	4939DKR	DEC	---	1/1/1866	SE	NW	13	12N	DO	3	5.07	---	DEC	West Fork Carson River
105	Stander, Town	4940DKR	DEC	---	1/1/1866	SE	NW	23	12N	DO	2	39.61	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	4941DKR	DEC	---	1/1/1866	SE	SW	23	12N	DO	2	17.08	---	DEC	East Fork Carson River
105	H. F. Daugherty Land And Livestock Co	4942DKR	DEC	---	1/1/1866	SE	SW	23	12N	DO	2	0.43	---	DEC	East Fork Carson River
105	Boswell, Jim	4943DKR	DEC	4/21/1DKR	1/1/1867	NW	SW	4	12N	DO	2	13.60	---	DEC	East Fork Carson River
105	Stander, Town	4944DKR	DEC	---	1/1/1867	NE	SE	4	12N	DO	2	0.43	---	DEC	East Fork Carson River
105	Cowles, Chids	4945DKR	DEC	---	1/1/1867	SE	SE	7	12N	DO	2	48.06	---	DEC	East Fork Carson River
105	Peter & Jsa Simmt, William & Mary Simmt, Robert & Davon Simmt	4946DKR	DEC	---	1/1/1867	SE	SE	7	12N	DO	2	14.09	---	DEC	East Fork Carson River
105	Strode, Leroy Henry & Lois	4947DKR	DEC	---	1/1/1867	NE	SE	5	12N	DO	2	5.91	---	DEC	East Fork Carson River
105	Hussman, Mathilda, Jepsen	4948DKR	DEC	---	1/1/1867	NE	NW	10	12N	DO	5	75.00	---	DEC	West Fork Carson River
105	Westfork Trust Agreement	4949DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bing, D. Gerald Jr.	4950DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Carson Valley Development Corp.	4951DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hilliard, Charles P.	4952DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Estes Corporation	4953DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Heorold, Owen E.	4954DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Marton, Incorporated	4955DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nyton Services, Inc.	4956DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Whear, R.E.	4957DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wheat, T.S.	4958DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Gardnersville-City	4959DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	0.83	---	DEC	East Fork Carson River
105	** Carson Valley Estates	4960DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Leeb-Mil Of Nevada, Inc.	4961DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Thornhead Photo Service, Inc.	4962DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Gardnersville-City	4963DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	0.48	---	DEC	East Fork Carson River
105	** Carson Valley Estates	4964DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Centennial Ventures, Inc.	4965DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fornschiele, Daniel Lynn	4966DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fornschiele, Jane H.	4967DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Leeb-Mil Of Nevada, Inc.	4968DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Middleman, Grace	4969DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Stephenson, Doman	4970DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Swift, J. Paul	4971DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Swift, Jane	4972DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Hickey, James E.	4973DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	2.00	---	DEC	East Fork Carson River
105	Hickey, James E.	4974DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	0.20	---	DEC	East Fork Carson River
105	Hickey, James E.	4975DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	0.20	---	DEC	East Fork Carson River
105	Hickey, James E.	4976DKR	DEC	---	1/1/1869	NW	SE	10	12N	DO	2	0.45	---	DEC	East Fork Carson River
105	Jepsen, M.	4977DKR	DEC	---	1/1/1869	NE	SW	14	12N	DO	2	1.40	---	DEC	East Fork Carson River
105	McCullum, M.	4978DKR	DEC	---	1/1/1869	NE	SW	14	12N	DO	2	0.45	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qt	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Schacht, August	284ADCR	DEC	---	1/1/1869	SE	SW	32	13N	20E	DO	2	0.42	---	DEC	East Fork Carson River
105	Borda, B.W.; Dresher, R.N.; Gardnerville City; Lundegreen, F.J.	305ADCR	DEC	---	1/1/1869	SE	SW	32	13N	20E	DO	2	1.34	---	DEC	East Fork Carson River
105	Brenner, E.N.	305ADCR	DEC	---	1/1/1869	SE	SW	32	13N	20E	DO	2	0.42	---	DEC	East Fork Carson River
105	Lundegreen, F.J. (Heirs)	305ADCR	DEC	---	1/1/1869	SE	SW	32	13N	20E	DO	2	2.60	---	DEC	East Fork Carson River
105	Jensen, Mrs. Minnie	305ADCR	DEC	---	1/1/1869	SE	SW	32	13N	20E	DO	2	0.48	---	DEC	East Fork Carson River
105	Cram Equipment, Inc.	305ADCR	DEC	---	1/1/1869	SE	SW	32	13N	20E	DO	2	1.45	---	DEC	East Fork Carson River
105	Overland Holding Co.	320ADCR	DEC	---	1/1/1869	SE	SW	34	13N	20E	DO	2	24.33	---	DEC	East Fork Carson River
105	Douglas County	320ADCR	DEC	---	1/1/1869	SE	SW	34	13N	20E	DO	2	3.05	---	DEC	East Fork Carson River
105	Borda, Ted Ann Diana	320ADCR	DEC	---	1/1/1869	SE	SW	34	13N	20E	DO	2	12.20	---	DEC	East Fork Carson River
105	H. William G. G. G. G. G.	320ADCR	DEC	---	1/1/1869	SE	SW	34	13N	20E	DO	2	0.64	---	DEC	East Fork Carson River
105	William G. G. G. G. G.	320ADCR	DEC	---	1/1/1869	SE	SW	34	13N	20E	DO	2	0.64	---	DEC	East Fork Carson River
105	Charnes, Howard & Alida Trust	320ADCR	DEC	---	1/1/1870	SE	SW	32	14N	19E	DO	6	34.27	---	DEC	Carson River
105	Charnes, Howard & Alida Trust	324ADCR	DEC	---	1/1/1870	SE	SW	32	14N	19E	DO	6	38.36	---	DEC	Carson River
105	Charnes, Howard & Alida Trust	324ADCR	DEC	---	1/1/1870	SE	SW	32	14N	19E	DO	6	20.10	---	DEC	Carson River
105	The Fensdell Family Trust	324ADCR	DEC	---	1/1/1870	SW	SE	4	12N	20E	DO	2	37.17	---	DEC	East Fork Carson River
105	The Fensdell Family Trust	324ADCR	DEC	---	1/1/1870	SW	SE	4	12N	20E	DO	2	21.84	---	DEC	East Fork Carson River
105	A.R.C. And J Investment Company, Or Its Nominees Marchini, Susie B.; Ratio, Bennie L. And Marvella T.; Sesser, James D. And Carol I.; Marchini, John F. And Nancy V.	334ADCR	DEC	---	1/1/1870	SE	SW	9	12N	20E	DO	2	39.65	---	DEC	East Fork Carson River
105	Frank, Kenneth and Elizabeth M.	303ADCR	DEC	---	1/1/1870	SE	SW	9	12N	20E	DO	2	19.17	---	DEC	East Fork Carson River
105	Kidman, Carl W. and Abria H.	303ADCR	DEC	---	1/1/1870	SE	SW	9	12N	20E	DO	2	1.18	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	320ADCR	DEC	---	1/1/1870	NE	SW	32	12N	20E	DO	2	60.00	---	DEC	East Fork Carson River
105	Cohler Feing Trust	320ADCR	DEC	---	1/1/1870	NE	SW	19	13N	19E	DO	5	3.49	---	DEC	Carson River
105	Lavence Reese Trust	320ADCR	DEC	---	1/1/1870	NE	SW	19	13N	19E	DO	5	1.22	---	DEC	Carson River
105	John K. Dufor And Laurie W. Weaver Revocable Trust Dated 3/17/2017	320ADCR	DEC	---	1/1/1870	NE	SW	10	13N	19E	DO	5	0.55	---	DEC	Carson River
105	Company DCH	320ADCR	DEC	---	1/1/1871	NE	SW	15	12N	20E	DO	2	206.91	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	320ADCR	DEC	46539, 49830, 685DCR	1/1/1871	SW	SW	24	12N	20E	DO	2	218.80	---	DEC	Carson River
105	Bentley Family Limited Partnership	320ADCR	DEC	---	1/1/1871	SW	SW	24	12N	20E	DO	2	31.01	---	DEC	Carson River
105	Bentley Family Limited Partnership	320ADCR	DEC	---	1/1/1871	SW	SW	24	12N	20E	DO	2	314.87	---	DEC	Carson River
105	Bentley Family Limited Partnership	320ADCR	DEC	---	1/1/1871	SW	SW	24	12N	20E	DO	2	212.87	---	DEC	Carson River
105	Herbie Annedise; Herbie, Herman	330ADCR	DEC	---	1/1/1871	SW	SE	10	12N	20E	DO	2	30.00	---	DEC	East Fork Carson River
105	Dandalee Sorenson	330ADCR	DEC	---	1/1/1871	NE	NE	9	12N	20E	DO	2	16.71	---	DEC	East Fork Carson River
105	Chapin Living Trust Dated 4/27/1999	330ADCR	DEC	---	1/1/1871	NE	NE	9	12N	20E	DO	2	5.29	---	DEC	East Fork Carson River
105	F. Harve Land and Livestock Co.	304ADCR	DEC	---	1/1/1871	SE	SW	9	12N	20E	DO	2	40.00	---	DEC	East Fork Carson River
105	Hickey, James M.	304ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	4.00	---	DEC	East Fork Carson River
105	Shane, C.L.; Shane, F.R.	304ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	0.95	---	DEC	East Fork Carson River
105	Carstensen, Anna K.; Carstensen, Martin	304ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	0.52	---	DEC	East Fork Carson River
105	Leid Mill Of Nevada, Inc.	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	20.67	---	DEC	East Fork Carson River
105	Leid Mill Of Nevada, Inc.	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	0.22	---	DEC	East Fork Carson River
105	** Borda, B.B.	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Borda, Raymond B.	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Brown, Cecile, J.	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Brown, Orrin P.	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Cardinal, Betty M.	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Cardinal, Leo	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Cardinal, Virgil	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Haussman Family 2000 Trust	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Kwan, Edna	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Kwan, Wallace N.	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River
105	** Led-Mill Of Nevada, Inc.	330ADCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	Unfunded	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Page 20 of 45

Prepared by Resource Concepts, Inc.

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Medermott, Helen Patton	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Medermott, John A.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Town of Minden	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Nalder, Richard H.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Nedderriep, Katherine E.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Thran, Dorothy A.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Thran, Earnhart W.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Weaver, Rollie A.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Wood, Rick B. and Mary J.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Yin, Earl	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Yin, Ruby	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Dessler, Herbert, Bell, Clarence W.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Conceicao, Roy	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Gardnerville-City	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Dehart, A.F.; Green Meadows Mobile Homes	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Lahrs, Irene; Lahrs, Jack D.; Lahrs, Marvin E.; Lahrs, Celeste A.; Hinz, John and Wanda	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Armstrong, Dale; Armstrong, Suzanne M.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Hussain Land and Livestock Company	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Fracti Robert LLC	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	** Johnson, William R. Jr	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Tomerlin, Deborah	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	William and Patricia R. Cranfill	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Tomerlin, Germany	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	William R. Tomerlin, And James O. Tomerlin	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	The James O. Tomerlin Trust	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	William P. O'Shaughnessy and Phyllis Oulley	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Johnson, William N. and Marilee Reeves	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	The Prather Family Trust	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Amber L. Turner Revocable Trust Dated 9/12/2012	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Jensen, M.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Park, W. Brooks	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	First National Bank, Trustee	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Vidler Water Company, Inc.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Minden-Town	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Hansen, Johnson, Schwake, and Thran	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Buck, John; Catherine, Keith and Marjorie; McMurtry, D.J.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Dwyer, Roland And Jean P.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Vidler Water Company, Inc.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	The Duane L. Ewerill Charitable Trust	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Nevada Northwest LLC	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Hussain, Mathilda, Jesson	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Ronda, Ted And Diana	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Vidler Water Company	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Nedderriep, Kent R.; Nedderriep, Lisa; Nedderriep, Mark W.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Roman Catholic Church, Bishop of NV	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River
105	Overland Holding Co.	3300DKR	DEC	---	1/1/1871	SW	NE	4	12N	DO	2	Unfractionated	---	DEC	East Fork Carson River

Prepared by Resource Concepts, Inc. Page 21 of 45 Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town-ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Douglas County	3270DKR	DEC	---	1/1/874	NE	SW	14	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	Baker, Frank H.	3290DKR	DEC	---	1/1/874	NE	SW	14	12N	20E	DO	2	Unf/Ident	---	DEC	East Fork Carson River
105	** Baker, T.	3290DKR	DEC	---	1/1/874	NE	SW	14	12N	20E	DO	2	Unf/Ident	---	DEC	East Fork Carson River
105	** Barrett, C.	3290DKR	DEC	---	1/1/874	NE	SW	14	12N	20E	DO	2	Unf/Ident	---	DEC	East Fork Carson River
105	** Douglas County School District	3290DKR	DEC	---	1/1/874	NE	SW	14	12N	20E	DO	2	Unf/Ident	---	DEC	East Fork Carson River
105	** Bechemenby, Jean	3290DKR	DEC	---	1/1/874	NE	SW	14	12N	20E	DO	2	Unf/Ident	---	DEC	East Fork Carson River
105	** Oxoby, Mitchell P.	3290DKR	DEC	---	1/1/874	NE	SW	14	12N	20E	DO	2	Unf/Ident	---	DEC	East Fork Carson River
105	** Wilkover Property, Inc.	3290DKR	DEC	---	1/1/874	NE	SW	14	12N	20E	DO	2	Unf/Ident	---	DEC	East Fork Carson River
105	Fred Alma and Harold E. Hansen, Helen H.	641DKR	DEC	---	1/1/874	SE	NE	2	12N	19E	DO	5	2.50	---	DEC	West Fork Carson River
105	Carson Water Subconservancy District	641DKR	DEC	---	1/1/874	SE	NE	2	12N	19E	DO	5	34.50	---	DEC	West Fork Carson River
105	Carson Water Subconservancy District	642DKR	PER	544DKR	1/1/875	NW	SE	34	11N	19E	DO	4	947.75, afa	---	STO	West Fork Carson River
105	Sierra Nevada SW Enterprises, Ltd	5473Z	PER	449DKR	1/1/875	NW	SE	34	11N	19E	DO	4	---	---	STO	West Fork Carson River
105	Bobula, James and Jo Linda	489140	REA	449DKR	1/1/875	NE	SW	10	12N	20E	DO	2	---	---	DEC	East Fork Carson River
105	Corlew Ranches	490DKR	DEC	---	1/1/875	SE	NW	23	12N	20E	DO	2	4.50	---	DEC	East Fork Carson River
105	Park, W. Brooks	490DKR	DEC	---	1/1/875	SE	NW	23	12N	20E	DO	2	3.81	---	DEC	East Fork Carson River
105	Sierra Nevada SW Enterprises, Ltd	449DKR	DEC	---	1/1/875	SE	NW	23	12N	20E	DO	2	1.03	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	449DKR	DEC	---	1/1/875	NE	SE	19	12N	20E	DO	2	13.87	---	DEC	East Fork Carson River
105	Hussman Land & Livestock Company	450DKR	DEC	---	1/1/875	NE	SE	19	12N	20E	DO	2	11.13	---	DEC	East Fork Carson River
105	Hemingson, John C; Hemingson, Virginia G.	290DKR	DEC	---	1/1/875	SW	SE	4	12N	20E	DO	2	54.00	---	DEC	East Fork Carson River
105	Kimmerling, Margery A; Kimmerling, Robert A.	3290DKR	DEC	---	1/1/875	NW	NE	32	12N	20E	DO	5	12.00	---	DEC	West Fork Carson River
105	Kimmerling, Margery A; Kimmerling, Robert A.	3290DKR	DEC	---	1/1/875	NW	NE	32	12N	20E	DO	5	73.00	---	DEC	West Fork Carson River
105	Peter & Jan Smircic, William & Mary Smith, Gerald, Gary & Jimmott	384DKR	DEC	---	1/1/875	NW	NE	19	12N	20E	DO	5	37.09	---	DEC	West Fork Carson River
105	Sechrest, Arnold A.; Sechrest, Grace A.; USFWS	54DKR	DEC	---	1/1/875	NW	NE	19	12N	20E	DO	5	5.91	---	DEC	West Fork Carson River
105	Corlew Ranches	60DKR	DEC	---	1/1/875	SE	SE	23	12N	20E	DO	2	40.00	---	DEC	East Fork Carson River
105	Corlew Ranches	71DKR	DEC	---	1/1/875	SE	SE	23	12N	20E	DO	2	32.02	---	DEC	East Fork Carson River
105	Jacobson Family Trust	40868	4430Z	441DKR	1/1/876	NE	NE	15	12N	20E	DO	2	10.13	---	IRR	Carson River
105	Sierra Nevada SW Enterprises, Ltd	49868	4430Z	441DKR	1/1/876	NE	NE	15	12N	20E	DO	2	42.50	---	IRR	Carson River
105	Gardnerville-City	2544	PER	multiple claims	1/1/876	SW	NE	4	12N	20E	DO	2	---	19.9 afa	STO	Carson River-East Fork-Cottonwood Slough Ditches
105	W&H Harmony Water, LLC	48130	REA	49868, 441DKR	1/1/876	NE	SW	10	12N	20E	DO	2	---	---	IRR	East Fork Carson River
105	Bentley Family Limited Partnership	441DKR	DEC	---	1/1/876	NE	SE	19	12N	20E	DO	2	55.74	---	DEC	East Fork Carson River
105	Jacobson Family Trust 1982	441DKR	DEC	---	1/1/876	NE	SE	19	12N	20E	DO	2	1.91	---	DEC	East Fork Carson River
105	Jacobson Family Trust	441DKR	DEC	---	1/1/876	NE	SE	19	12N	20E	DO	2	0.72	---	DEC	East Fork Carson River
105	Nelson, William F; Johanna & Lon Davis	443DKR	DEC	---	1/1/876	NE	SE	19	12N	20E	DO	2	7.93	---	DEC	East Fork Carson River
105	Ziegler, R. Wayne & Margaret-Hollow - Tilly, Laila	143DKR	DEC	---	1/1/876	NE	SE	10	12N	20E	DO	2	3.37	---	DEC	East Fork Carson River
105	Hussman Land & Livestock Company	143DKR	DEC	---	1/1/876	NE	SE	10	12N	20E	DO	2	10.70	---	DEC	East Fork Carson River
105	Gardnerville-City	400DKR	DEC	---	1/1/876	NW	SE	9	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	White, John Henry & Linda G. Smith, John M. & Marie	804DKR	DEC	---	1/1/876	NW	SE	9	12N	20E	DO	2	49.00	---	DEC	East Fork Carson River
105	The Sarah W. Decker Trust	204DKR	DEC	---	1/1/876	NW	SE	9	12N	20E	DO	2	3.20	---	DEC	East Fork Carson River
105	Ebe, Douglas L. & Dorothy A.	304DKR	DEC	---	1/1/876	NW	SE	9	12N	20E	DO	2	2.04	---	DEC	East Fork Carson River
105	River Tree Ranch, LTD.	304DKR	DEC	---	1/1/876	NW	SE	9	12N	20E	DO	2	32.00	---	DEC	East Fork Carson River
105	Jacobson, Alma A.; River Tree Ranch; Chichester, Rhoda J.	331DKR	DEC	---	1/1/876	NW	SE	9	12N	20E	DO	2	32.00	---	DEC	East Fork Carson River
105	MacK Land & Cattle Co.	424DKR	DEC	---	1/1/876	NW	SE	4	12N	20E	DO	2	140.90	---	DEC	East Fork Carson River
105	Vulter Water Company, Inc.	424DKR	DEC	---	1/1/876	NW	SE	4	12N	20E	DO	2	50.60	---	DEC	East Fork Carson River
105	Town of Minden	424DKR	DEC	---	1/1/876	NW	SE	4	12N	20E	DO	2	9.22	---	DEC	East Fork Carson River
105	M.G. Stafford, Inc.	424DKR	DEC	---	1/1/876	NW	SE	4	12N	20E	DO	2	2.53	---	DEC	East Fork Carson River
105	Gardnerville Town Water Company, Inc.	424DKR	DEC	---	1/1/876	NW	SE	4	12N	20E	DO	2	0.23	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	46975	40344	814DKR	1/1/877	NW	SE	19	11N	20E	DO	4	---	540.55 afa	STO	Carson River
105	Annacker, Cass & Virginia	71540	PER	311DKR	1/1/877	NW	SE	9	12N	20E	DO	2	48.00	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town-ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Bentley Family Limited Partnership	2643A	2643A	6/6/75, 1/9/DCR	1/1/1877	NW	SE	10	12N	20E	DO	2	4.65	---	IRR	East Fork Carson River
105	Sorenson, Douglas	304DCR	DEC	---	1/1/1877	NE	NE	9	12N	20E	DO	2	5.00	---	DEC	East Fork Carson River
105	Fitz, George	304DCR	DEC	---	1/1/1877	NE	SE	8	12N	20E	DO	2	1.14	---	DEC	East Fork Carson River
105	Makhanian, Alfred H. and Anna Lee	309DCR	DEC	---	1/1/1877	NE	SE	8	12N	20E	DO	2	13.00	---	DEC	East Fork Carson River
105	Wass, Chesley E. and Janet	309DCR	DEC	---	1/1/1877	NE	SE	8	12N	20E	DO	2	13.00	---	DEC	East Fork Carson River
105	Hylton, Jerald W. and Maxine	320DCR	DEC	---	1/1/1877	NE	SE	8	12N	20E	DO	2	5.00	---	DEC	East Fork Carson River
105	Kesler, Byron, Fulton, Lois	311DCR	DEC	---	1/1/1877	NE	SE	8	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Vidler Water Company Inc.	311DCR	DEC	---	1/1/1877	NE	SE	8	12N	20E	DO	2	33.40	---	DEC	East Fork Carson River
105	Stark, W. Brooke	311DCR	DEC	---	1/1/1877	NE	SE	2	10N	20E	AL	4	0.60	---	DEC	Greenwood Creek
105	Manly, W. Robert	319DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.19	---	DEC	East Fork Carson River
105	Brady, W. H. Jr.	319DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.19	---	DEC	East Fork Carson River
105	Park, Harold A.	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.14	---	DEC	East Fork Carson River
105	Barrick, Chas.	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.15	---	DEC	East Fork Carson River
105	Schaefer, Fred	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.25	---	DEC	East Fork Carson River
105	Winckelman, Harry A.	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.25	---	DEC	East Fork Carson River
105	Gardnerville Town Water Company, Inc	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.15	---	DEC	East Fork Carson River
105	Park, Virgil (Heirs)	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.25	---	DEC	East Fork Carson River
105	Kyle, Donald P.	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.68	---	DEC	East Fork Carson River
105	Multiple Owners	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.16	---	DEC	East Fork Carson River
105	Kettenberg, S., Kettenburg, E., Whitaker, Martha	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.16	---	DEC	East Fork Carson River
105	Winkelmann, Ewald	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.16	---	DEC	East Fork Carson River
105	Gardnerville City	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.18	---	DEC	East Fork Carson River
105	Roman Catholic Church, Bishop of NV	368DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	9.50	---	DEC	East Fork Carson River
105	Lange, Henry R.	369DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.24	---	DEC	East Fork Carson River
105	Cox, M.J.; Cox, Donald; Neddertop, Louis F.	346DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.27	---	DEC	East Fork Carson River
105	Nelson, Johnna and William F. Cox, M.J.; Cox, Donald; Neddertop, Louis F.; Gardnerville City	346DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.26	---	DEC	East Fork Carson River
105	Smith, Fredrick W.	348DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.29	---	DEC	East Fork Carson River
105	Smith, Fredrick W.	348DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.16	---	DEC	East Fork Carson River
105	Coxley, V. and Yvonne K. Neddertop, Louis F.	351DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.32	---	DEC	East Fork Carson River
105	Neddertop, Louis F.	351DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.22	---	DEC	East Fork Carson River
105	Bachstein, Harry A.	351DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.10	---	DEC	East Fork Carson River
105	Harvey, Daniel M.	351DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.06	---	DEC	East Fork Carson River
105	Gardnerville - City	351DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.16	---	DEC	East Fork Carson River
105	Togashi, James and R. Bruns, Heinz J.	356DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.37	---	DEC	East Fork Carson River
105	Bruns, Heinz J.	356DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.48	---	DEC	East Fork Carson River
105	Rich, Myrtle	360DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.80	---	DEC	East Fork Carson River
105	** Colt Associates	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Maggegh, Richard D.	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Maggegh, Shirley	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Malkmus, Marilyn V.	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Malkmus, Robert Carl	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Marquart, Henry	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Seaman, Billie Rae	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Seaman, Don F.	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Smith, Raymond M.	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Taylor, Robert H.	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Trinity Lutheran Church	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Woolard, Eugene	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River
105	** Woodard, Fran	363DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	Unf/defined	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town-ship	POD River Segment	Acres	AFA	Use	Source Description
105	** Yarraguirre, Alina	<u>3457DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** East Fork Swimming Pool	<u>3458DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hollister, Stanley	<u>3459DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mauk, Constance	<u>3460DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mauk, Robert E.	<u>3461DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Reed, Warren W.	<u>3462DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rockham, Fred C.	<u>3463DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Roman Catholic Church, Bishop of NY	<u>3464DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Spazza, Arthur J.	<u>3465DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Swanson, Lena	<u>3466DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	Beccum, Henry; Howerton, Danny	<u>3467DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	Howerton, Danny; Millholland, Ernest; Oxyby, Mitchell	<u>3468DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	Valley Water Company	<u>3469DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	Douglas County High School; Mauk, R.E.; Scarselli, G.	<u>3470DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ankers, L.A.	<u>3471DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Canabasy, R. L.	<u>3472DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Council of Assembly of Good, Inc.	<u>3473DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dangleberg, G. F.	<u>3474DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fleischer, M. D.	<u>3475DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Gansberg, G. D.	<u>3476DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ihart, P. & B.	<u>3477DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jepsen, G.L.	<u>3478DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Johnson, K.V.	<u>3479DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kincaid, Ron	<u>3480DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mauk, R. E.	<u>3481DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Menzley, C. C., JR.	<u>3482DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Minchin, R. R.	<u>3483DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Oxyby, Robert M. and Rebecca S.	<u>3484DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Powers, W.W.	<u>3485DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Scarselli, G.	<u>3486DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Soeman, Henry	<u>3487DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Stodiek, Cecil A.	<u>3488DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Turin, A. R.	<u>3489DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Turin, Arlen R.	<u>3490DGR</u>	DEC	---	1/1/1877	NE	SW	14	12N	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qr	POD Qtr	POD Sec	POD Town Ship	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Uhalde, Marie A.	385DCR	DEC	---	1/1/877	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wallace, Ethel	387DCR	DEC	---	1/1/877	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Young, T.T.	387DCR	DEC	---	1/1/877	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	First Amended Dean Seaman Trust	410DCR	DEC	---	1/1/877	NW	NE	32	13N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Douglas County	410DCR	DEC	---	1/1/877	NW	NE	32	13N	DO	2	7.15	---	DEC	East Fork Carson River
105	Bentley-Donald E.	410DCR	DEC	---	1/1/877	NW	NE	32	13N	DO	2	15.33	---	DEC	East Fork Carson River
105	The FNS Reversible Trust 90% and CCS	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	4.97	---	DEC	West Fork Carson River
105	Reversible Trust 10%	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	2.48	---	DEC	West Fork Carson River
105	Shelburne Farms & Groben	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	2.48	---	DEC	West Fork Carson River
105	High Meadows Ranch	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	2.48	---	DEC	West Fork Carson River
105	Dressler Foothill Ranch, LLC	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	19.03	---	DEC	West Fork Carson River
105	Foothill Ranch LLC 70% & Schwabe	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	10.00	---	DEC	West Fork Carson River
105	Family Trust Credit Trust 30%	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	18.36	---	DEC	West Fork Carson River
105	Steve and Suzanne Brown	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	10.59	---	DEC	West Fork Carson River
105	Douglas J. and Nancy D. Brinkshaw	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	---	---	DEC	West Fork Carson River
105	The Ronald & Marilyn Durkin Family Trust, Dated January 9, 1995	593DCR	DEC	---	1/1/877	NE	NW	19	12N	DO	5	1.05	---	DEC	West Fork Carson River
105	Park Ranch Holdings, LLC	834DCR	DEC	---	1/1/877	SE	SE	24	12N	DO	2	644.99	---	DEC	East Fork Carson River
105	Minden-Town	834DCR	DEC	---	1/1/877	SE	SE	24	12N	DO	2	26.27	---	DEC	East Fork Carson River
105	Vidler Water Company, Inc.	834DCR	DEC	---	1/1/877	SE	SE	24	12N	DO	2	6.42	---	DEC	East Fork Carson River
105	Vidler Family Limited Partnership	834DCR	DEC	---	1/1/877	SE	SE	24	12N	DO	2	2.49	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	834DCR	DEC	---	1/1/877	SE	SE	24	12N	DO	2	333.76	---	DEC	East Fork Carson River
105	Minden-Town	834DCR	DEC	---	1/1/877	SE	SE	24	12N	DO	2	104.09	---	DEC	East Fork Carson River
105	Pamphrey Holdings Nevada, LLC	834DCR	DEC	---	1/1/877	SE	SE	24	12N	DO	2	6.24	---	DEC	East Fork Carson River
105	H. F. Dauberg Land And Livestock Co.	834DCR	DEC	---	1/1/877	SE	SE	24	12N	DO	2	3.09	---	DEC	East Fork Carson River
105	Garderville-City	22931	PER	multiple claims	1/1/878	SW	NE	4	12N	DO	2	---	10 afa	STO	East Fork Carson River
105	Hawman Land & Livestock Company	1434DCR	DEC	---	1/1/878	NE	SE	10	12N	DO	2	14.40	---	DEC	East Fork Carson River
105	Yidler Water Company, Inc.	1534DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	33.09	---	DEC	East Fork Carson River
105	Shelburne Farms & Groben, Henry L. Vidler Water Company	1534DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	0.24	---	DEC	East Fork Carson River
105	** Anderson, E.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Anderson, H.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Banks, Lloyd E.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Banks, R.L.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Beaudreau, F.E.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bergovin, Loretta A.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bergovin, Louis M.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brantton, G. E.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Briggs, Charles W.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brown, B.L.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Deel, B.R.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dinahnn, W.B.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dressler, Fredrick M.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dressler, Lola Mary	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ellis, Ruby R.	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Furlan, Emory	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Lube, James	261DCR	DEC	---	1/1/878	NW	SE	10	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Prepared by Resource Concepts, Inc. Page 25 of 45 Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town-ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Maibore, O.D.	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Montagnano, John	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nielsen, A.C.	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Offord, E.	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rea, Donald	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Solari, Shirley	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Steffee, Helga	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Taylor, C.J.	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Tracy, F.C.	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wass, Cheley E.	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wilson A.P.	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wright, Jesse M.	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Lumby, Anna Beth, Lumby, Willis M.	201DCR	DEC	---	1/1/878	NW	SE	10	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	JEF Enterprises, LLC	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	19.37	---	DEC	East Fork Carson River
105	** Anderson, E.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Anderson, H.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bankus, Lloyd E.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bankus, R. L.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Beaucaire, F.E.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bergevin, Loreta A.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bergevin, Louis M.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brandon, G.E.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Briggs, Charles W.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brown, B.L.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Deel, B.R.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dinkshin, W.B.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dressler, Fredrick M.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dressler, Lola Mary	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ellis, Ruby R.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Farbas, Emery	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kimmmerling, Margery A.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kimmmerling, Robert A.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kitchin, Donald M.	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Lake, James	213DCR	DEC	---	1/1/878	NE	SE	8	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
 Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qr	POD Qtr	POD Sec	POD Town ship	POD River Segment	Acres	AFA	Use	Source Description
105	** Maibore, O.D.	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Montagnano, John	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nielson, A.C.	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Offord, E.	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Solari, Shirley	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Steffes, Helga	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Taylor, C.J.	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Tierra Linda Estates	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Tracy, F.C.	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Yee, Andrew	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wass, Chelley E.	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wilson, A. P.	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wright, Jesse M.	3133DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	Unsubdivided	---	DEC	East Fork Carson River
105	F. Hulse Land And Livestock Co., Inc Logan, W.R.; Osoby, Mitchel F.; Rosenbark, Henry J.	3133DKR	DEC	---	1/1/878	SW	SW	5	12N	DO 2	5.00	---	DEC	East Fork Carson River
105	Granke, Martha; Heitman, Florence	343DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.66	---	DEC	East Fork Carson River
105	Atkinson, Anna	343DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	1.00	---	DEC	East Fork Carson River
105	Loon of Mindon	343DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.26	---	DEC	East Fork Carson River
105	Gumbel, Lloyd; Parnell, Lucille	343DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.24	---	DEC	East Fork Carson River
105	Settemeyer, Mary; Settemeyer, Heitman, C.J.; Heitman, George; Heitman, Hugo; Heitman, Williams, Park, Mrs. Minnie.	343DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.30	---	DEC	East Fork Carson River
105	Glock, Alphonse	343DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.80	---	DEC	East Fork Carson River
105	Ala. T. and Valentine	354DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.13	---	DEC	East Fork Carson River
105	Ludell, Leonard	354DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.25	---	DEC	East Fork Carson River
105	Borda, Augustus (Heirs)	3674DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.26	---	DEC	East Fork Carson River
105	Douglas County	3674DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.26	---	DEC	East Fork Carson River
105	Borda, N.L.; Borda, B. B.; Borda, Raymond	3674DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.44	---	DEC	East Fork Carson River
105	Harris, Morris; Harris, William; Richards, Hannah	3674DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.50	---	DEC	East Fork Carson River
105	Borda Land & Sheep Co.	3674DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.74	---	DEC	East Fork Carson River
105	Nelson, Bill	3674DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.30	---	DEC	East Fork Carson River
105	Overland Holding Co.	3674DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.50	---	DEC	East Fork Carson River
105	Bustanboby, Louis; Bustanboby, Shelley; Ross, Dr. T. Y.	3724DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.33	---	DEC	East Fork Carson River
105	Gamberville City	374DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.67	---	DEC	East Fork Carson River
105	Schultz, Henry; Turris, Alex	384DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	3.10	---	DEC	East Fork Carson River
105	Alvin, L.; Miller, Lure H.	384DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	3.10	---	DEC	East Fork Carson River
105	John, F. P.	384DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	3.10	---	DEC	East Fork Carson River
105	Mathis, Wm C; Aloise, A.	384DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.80	---	DEC	East Fork Carson River
105	Salwell Land And Livestock	384DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	190.00	---	DEC	East Fork Carson River
105	Hellmickel, Betty And Elmer	3924DKR	DEC	---	1/1/878	SE	SW	6	12N	DO 2	8.00	---	DEC	East Fork Carson River
105	Lundegren, Bertha; Lundegren, Ed	3924DKR	DEC	---	1/1/878	NE	SE	8	12N	DO 2	3.00	---	DEC	East Fork Carson River
105	Neddlemire, C.S.; Neddlemire, Joyce	3924DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.32	---	DEC	East Fork Carson River
105	Christensen, Anna K.; Christensen, Martin	3924DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.40	---	DEC	East Fork Carson River
105	Douglas County	3924DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.22	---	DEC	East Fork Carson River
105	Howard, Gustave	3944DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.18	---	DEC	East Fork Carson River
105	Kidman, Alvira A.	3954DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.12	---	DEC	East Fork Carson River
105	Saverkup, Inc.	3954DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.24	---	DEC	East Fork Carson River
105	Multiple Owners	3954DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.85	---	DEC	East Fork Carson River
105	Neddlemire, F.L.	3954DKR	DEC	---	1/1/878	NE	SW	14	12N	DO 2	0.20	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qt	POD Qtr	POD Sec	POD Township	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Wilslef, William; Wislael, Alvina	3550DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.20	---	DEC	East Fork Carson River
105	Louisa, Lillian	3551DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.21	---	DEC	East Fork Carson River
105	Gansberg, Fred; Gansberg, Chris	3570DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.18	---	DEC	East Fork Carson River
105	Bruns, Henry J.	3570DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.18	---	DEC	East Fork Carson River
105	Garnett, David C.	3571DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.20	---	DEC	East Fork Carson River
105	Jacobson, Bertha; Park, Lavonne; Zeigler, Esther; Zeigler, Robert	3570DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.12	---	DEC	East Fork Carson River
105	Gilbert, Harold E.	3411DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.20	---	DEC	East Fork Carson River
105	Fuller, Frank	3411DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	1.83	---	DEC	East Fork Carson River
105	Rock, Albinse	3411DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.80	---	DEC	East Fork Carson River
105	Rock, Albinse	3411DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.18	---	DEC	East Fork Carson River
105	Oschinsky, Michael J.	3551DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.20	---	DEC	East Fork Carson River
105	Young, James F. M.	3551DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.20	---	DEC	East Fork Carson River
105	Lekumbere, Pete	3551DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.17	---	DEC	East Fork Carson River
105	Dossall, Mary	3551DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.68	---	DEC	East Fork Carson River
105	Dressler, Merman P.	3551DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.25	---	DEC	East Fork Carson River
105	Hicker, Marie	3551DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.25	---	DEC	East Fork Carson River
105	Daugler, Mrs. C. F. W.; Osoby, Mitchell P.; Roman Catholic Church, Bishop of NY	353DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.75	---	DEC	East Fork Carson River
105	** East Fork Swimming Pool	3501DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hollister, Stanley	3501DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mauck, Constance	3501DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mauck, Robert E.	3501DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Reed, Warren W.	3501DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rockholm, Fred C.	3501DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Roman Catholic Church, Bishop of NY	3501DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Spezza, Arthur J.	3501DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Swanson, Lena	3501DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Garden Cemetery Association	3601DKR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	5.00	---	DEC	East Fork Carson River
105	Schuchl, August	3601DKR	DEC	---	1/1/1879	NE	SW	32	13N	20E	DO	2	5.00	---	DEC	East Fork Carson River
105	F. Haise Land and Livestock Co.	3020DKR	DEC	---	1/1/1880	SE	SW	9	12N	20E	DO	2	40.00	---	DEC	East Fork Carson River
105	Rubensroth, Ida	3020DKR	DEC	---	1/1/1880	NW	SW	25	12N	20E	DO	2	3.00	---	DEC	East Fork Carson River
105	Vidler Water Company	3020DKR	DEC	---	1/1/1880	SE	NW	25	12N	20E	DO	2	3.80	---	DEC	East Fork Carson River
105	The Brian & Ronda Crockett Living Trust	3020DKR	DEC	---	1/1/1880	SE	NW	25	12N	20E	DO	2	1.70	---	DEC	East Fork Carson River
105	Crawford, Phillip; Hjalmann, Helen A.; Jones, Laura I.; Jones, Max L.; Corley Ranches	3020DKR	DEC	---	1/1/1880	SE	NW	25	12N	20E	DO	2	0.90	---	DEC	East Fork Carson River
105	Carson City	2982DKR	DEC	---	1/1/1880	SE	SE	23	12N	20E	DO	2	112.00	---	DEC	East Fork Carson River
105	F. Heise Land and Livestock Company	2105DKR	DEC	75618, 36693, 410DKR	1/1/1881	SE	SW	14	15N	20E	CC	7	---	51.95 sfa	MUN	Cc Well 41B, Induction Well Redrill
105	Jacobson, Bertha; Jacobson, Jewell; Jacobson, Stradger	141DKR	DEC	---	1/1/1881	SE	SW	32	26N	21E	AL	1	37.30	---	DEC	Wolf Creek
105	Hackie, Antoinette; Hebble, Herman A.H.C. Hebble, Hebble, Herman	354DKR	DEC	---	1/1/1881	NW	SE	10	12N	20E	DO	2	2.92	---	DEC	East Fork Carson River
105	Benale L. And Marcelle T. Sesar; James D. And Carol L. Marchini, John F. Aoh Narexy.	3041DKR	DEC	---	1/1/1881	SE	SW	9	12N	20E	DO	2	19.64	---	DEC	East Fork Carson River
105	HP Incorporated, A Nevada Corp., as Trustee for the 10 Wat Trust, Deated June 7, 2013	3041DKR	DEC	---	1/1/1881	SE	SW	9	12N	20E	DO	2	18.45	---	DEC	East Fork Carson River
105	James Michael Hickey Family Trust Agreement	3041DKR	DEC	---	1/1/1881	SE	SW	9	12N	20E	DO	2	0.75	---	DEC	East Fork Carson River
105	Kidman, Carl W. and Alma H.	3041DKR	DEC	---	1/1/1881	SE	SW	9	12N	20E	DO	2	1.16	---	DEC	East Fork Carson River
105	Stratton, Edgar J.; Stratton, Mary J.	3041DKR	DEC	---	1/1/1881	NE	SW	14	12N	20E	DO	2	5.00	---	DEC	East Fork Carson River
105	Bentley Pressurized Heating Company	3801DKR	DEC	---	1/1/1881	NE	SW	14	12N	20E	DO	2	1.73	---	DEC	East Fork Carson River
105	Minden-Town	3801DKR	DEC	---	1/1/1881	NE	SW	14	12N	20E	DO	2	1.70	---	DEC	East Fork Carson River

Prepared by Resource Concepts, Inc. Page 28 of 45 Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Allerman, E.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Anderson, H.L.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Arnaiz, M.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Arnaiz, S.L.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ashurst, Iva F.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bacon, Milton E.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Batchelder, J.E.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Beck, R.M.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Benson, M.C.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Berg, R.W.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bernard, E.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bernard, H.D.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bernard, M.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Booth, J.N.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brinkman, Gladys A.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Broth, W.D.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Callahan, T.J.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Canastasy, P.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Canastasy, R.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Chichester, E.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Cleopfi, J.H.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Curtis, R.E.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Daugberg, Grace	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Daugberg, H.F.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Darrrough, J.T.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Doune, J.A.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Douglas County Library	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Douglas County School District	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ellis, D.K.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Echeverry, J.E.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Falletti, L.J.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ferner, A.M.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fenner, J.	<u>3850DCR</u>	DEC	---	1/1/881	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
 Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town-ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Fingar, L.P.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Frakes, Violet G.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fullstone, Bass	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Galeppi, Leo B.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Gilbert, C.I.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Giovanonni, M.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Godeske, C.W.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Godeske, W.G.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Graham, George D.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Graham, Josie	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** H.F. Dauberg Land and Livestock Co	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hurvey, D.M.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hesse, F.C.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hellwindel, D.F.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hellwindel, D.R.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hickey, James M.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hulbert, Noel E.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Halbert, Peggy M.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hussman, James A.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hussman, W.L.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jacobson, Bertha	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jacobson, L.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jarrett, E.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jarrett, S.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jepson, Hans R.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Johnson, A.H.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Johnson, Bruce A.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Johnson, Janet	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Kreck, G.L.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Lelumberry, J.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Lelumberry, S.Y.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Landreghen, A.M.	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mack Duane	3850DCR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
 Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rgr	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Mack, M.E.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mabo, J.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mausel, W.M.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mays, P.L.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Meginnis, Fred	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mcmasters, V.M.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, J.A.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Minden Coop Creamery	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Minden Milling Co.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Minden-Town	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Morris, C.H.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nelson, C.W. (Heirs)	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Page, James	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Pask, Laverne G.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Petterson, H.R.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Peterson, H.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Pohl, Vernita H.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Reed, Warren W.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rockholm, F.C.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Roman Catholic Church, Bishop of NY	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rahenstredh, H.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Saffey, Daphne E.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Sanford, Graham	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Sanford, Jeanne	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Soddon, S.V.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Settelmeier, F.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Settelmeier, J.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Settelmeier, M.F.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Smith, Gladys W.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Spring, F.O.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	G Pea II, LLC	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Douglas County	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	15.24	---	DEC	East Fork Carson River
105	First Amended Deans Seaman Trust	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	14.69	---	DEC	East Fork Carson River
105	Douglas County	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	9.97	---	DEC	East Fork Carson River
105	Douglas County	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	DO	2	7.00	---	DEC	East Fork Carson River
105	F. Haise Land and Livestock Co.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	AL	4	57.80	---	DEC	Indian Creek
105	F. Haise Land and Livestock Co.	3850DKR	DEC	---	1/1/881	NE	SW	14	12N	20E	AL	4	84.00	---	DEC	Indian Creek
105	Dressler, Evel H.	3850DKR	DEC	---	1/1/881	NE	SW	5	11N	20E	DO	5	95.00	---	DEC	West Fork Carson River

Prepared by Resource Concepts, Inc. Page 31 of 45 Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qr	POD Qtr	POD Sec	POD Town ship	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Dressler, Fred H.	870DKR	DEC	---	1/1/881	NE	SW	5	11N	20E	DO	5	---	DEC	West Fork Carson River
105	Bentley Pressurized Hearing Company	870DKR	DEC	---	1/1/881	SE	SE	21	12N	20E	DO	2	---	DEC	East Fork Carson River
105	G. P. Trucking Company	870DKR	DEC	---	1/1/881	SE	SE	23	12N	20E	DO	2	---	DEC	East Fork Carson River
105	2004 Malcoms Revocable Trust Dated 4/7/2004	870DKR	DEC	---	1/1/881	SE	SE	23	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Mid Valley Road	870DKR	DEC	---	1/1/881	SE	SE	21	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Binkley Road	870DKR	DEC	---	1/1/881	SE	SE	23	12N	20E	DO	2	---	DEC	East Fork Carson River
105	AVS 24-500-16	870DKR	DEC	---	1/1/881	SE	SE	21	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Rock Island Corporation	870DKR	DEC	---	1/1/882	NE	SW	21	13N	19E	DO	2	---	DEC	Carson River
105	U.S.A. (Trust For Washoe Tribe)	870DKR	DEC	---	1/1/882	NE	SW	24	13N	19E	DO	2	---	DEC	East Fork Carson River
105	U.S.A. (Trust For Washoe Tribe)	870DKR	DEC	---	1/1/882	NE	SW	24	13N	19E	DO	2	---	DEC	East Fork Carson River
105	U.S.A. (Trust For Washoe Tribe)	870DKR	DEC	---	1/1/882	NE	SW	24	13N	19E	DO	2	---	DEC	East Fork Carson River
105	U.S.A. (Trust For Washoe Tribe)	870DKR	DEC	---	1/1/882	NE	SW	24	13N	19E	DO	2	---	DEC	East Fork Carson River
105	Consolidate Municipality of Carson City	870DKR	DEC	---	1/1/882	NE	SW	24	13N	19E	DO	2	---	DEC	East Fork Carson River
105	Minden-Town	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Bentley Family, LLC	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Haegy, Jim	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Biaggi, Aldo	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Biaggi, Mary	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Brown, Floyd	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Brown, Loreta	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Diamore, Delphine	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Dinore, Robert H.	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Faré, Blanche	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Faré, Sam	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Framer, Ernest J.	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Foote, Sally	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Juold, Olga	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Leeman, Erna	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Muller, Freda	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Muller, William h.	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Zischank, Max	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Zischank, Nun	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Nevada Contractors, Inc.	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	First National Bank, Trustee	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Mutireau Associates	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Agriquest	870DKR	DEC	---	1/1/882	NE	SW	14	12N	20E	DO	2	---	DEC	East Fork Carson River
105	2004 Malcoms Revocable Trust Dated 4/7/2004	870DKR	DEC	---	1/1/882	SE	SE	23	12N	20E	DO	2	---	DEC	West Fork Carson River
105	Aves Family Trust	870DKR	DEC	---	1/1/882	SE	SE	23	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Bentley Pressurized Hearing Company	870DKR	DEC	48904, 090DKR	1/1/883	SE	SE	23	12N	20E	DO	2	---	DEC	Carson River
105	U.S.A. (Trust For Washoe Tribe)	870DKR	DEC	---	1/1/883	SE	SW	23	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Herbie Amalioche, Herbie, Harman	870DKR	DEC	---	1/1/883	NW	SE	10	12N	20E	DO	2	---	DEC	East Fork Carson River
105	Volier Water Company	870DKR	DEC	---	1/1/883	NW	SE	10	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Led-Mill Of Nevada, Inc.	870DKR	DEC	---	1/1/883	NW	SE	10	12N	20E	DO	2	---	DEC	East Fork Carson River
105	** Logan, G. E.	870DKR	DEC	---	1/1/883	NW	SE	10	12N	20E	DO	2	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Smith, Gladys W.	464DKR	DEC	---	1/1/883	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Costa, Moses Schultz W&D Swift MK&D	475DKR	DEC	---	1/1/883	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Jern, Joel	475DKR	DEC	---	1/1/883	NW	SE	10	12N	20E	DO	2	1.83	---	DEC	East Fork Carson River
105	Davis, Mrs. Lou; Owen, Anna May; Owen, James D.	467DKR	DEC	---	1/1/883	NE	SW	10	12N	20E	DO	3	25.00	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	481DKR	DEC	---	1/1/883	SE	SE	23	12N	20E	DO	2	149.00	---	DEC	East Fork Carson River
105	Bentley Nevada Corporation	481DKR	DEC	---	1/1/883	SE	SE	23	12N	20E	DO	2	149.00	---	DEC	East Fork Carson River
105	2004 Williams Revocable Trust Dated 4/7/2004	491DKR	DEC	---	1/1/883	SE	SE	23	12N	20E	DO	2	12.00	---	DEC	East Fork Carson River
105	G. P. Trucking Company	491DKR	DEC	---	1/1/883	SE	SE	23	12N	20E	DO	2	11.02	---	DEC	East Fork Carson River
105	Loggins, James	491DKR	DEC	---	1/1/883	SE	SE	23	12N	20E	DO	2	8.09	---	DEC	East Fork Carson River
105	North Hill Gravel & Supply	491DKR	DEC	---	1/1/883	SE	SE	23	12N	20E	DO	2	7.12	---	DEC	East Fork Carson River
105	Avery Family Trust	491DKR	DEC	---	1/1/883	SE	SE	23	12N	20E	DO	2	5.34	---	DEC	East Fork Carson River
105	Shore, Keith	491DKR	DEC	---	1/1/883	SE	SE	23	12N	20E	DO	2	20.00	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	481DKR	DEC	---	1/1/883	SE	SE	23	12N	20E	DO	2	20.00	---	DEC	East Fork Carson River
105	G. R. B. Company	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	12.27	---	DEC	East Fork Carson River
105	** Bing, D. Gerald Jr.	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bland, Charles P.	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bates Corporation	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Harold, Owen, E.	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Marton Incorporated	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** NITCO Services, Inc.	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wheat, R. E.	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wheat, T. S.	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Fehl, Anna Edith Harold E. Dicks Lee	491DKR	DEC	---	1/1/884	SE	NE	2	12N	20E	DO	2	Unsubdivided	---	DEC	West Fork Carson River
105	White, John Hanes & Wanda G. The Town of Minden	491DKR	DEC	---	1/1/884	NW	SE	10	12N	20E	DO	2	12.00	---	DEC	East Fork Carson River
105	Minden-Town	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Bentley Family, LLC	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	0.25	---	DEC	East Fork Carson River
105	** Hasey, Jim	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	0.16	---	DEC	East Fork Carson River
105	** Blagel, Aldo	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Blagel, Mary	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brown, Floyd	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brown, Loreta	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dismore, Delphine	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dismore, Robert H.	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Farel, Blanche	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Farel, Sam	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fixmer, Ernest J.	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Franklin, Oscar G.	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Franklin, Susie M.	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Judd, Olga	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Leeman, Erna	491DKR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town-ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Muller, Freda	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Muller, William H.	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Vidler Water Company	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Zischank, Max	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Zischank, Nan	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	First National Bank, Trustee	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Altonco Associates	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Vidler Water Company, Inc.	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Vidler Water Company	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Vidler Water Company	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Hansen, Johnson, Schwaake, and Thran	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Minden-Town	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Vidler Water Company	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Buck, Lory, Corriorth, Keith and Marie; McMurry, D.E.	2460DCR	DEC	---	1/1/885	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	H. E. Dauberg Land And Livestock Co. Park Ranch Holdings, LLC	2460DCR	DEC	---	1/1/885	NE	SW	32	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	2451L	DEC	60673, 547DCR, 548DCR, 549DCR, 550DCR, 551DCR, 568DCR	1/1/886	SE	SW	8	11N	20E	DO	4	862.33	---	IRR	W & E Fork Carson River
105	Galeppi, Frances M., Galeppi, Leo B.	2410DCR	DEC	---	1/1/886	SE	SE	24	13N	19E	DO	2	522.00	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	2410DCR	DEC	---	1/1/886	SE	SW	8	11N	20E	DO	4	95.00	---	DEC	West Fork Carson River
105	Bentley Family Limited Partnership	2410DCR	DEC	---	1/1/887	SE	SW	24	13N	20E	DO	2	41.97	---	DEC	Carson River
105	Bentley Family Limited Partnership	2410DCR	DEC	---	1/1/887	SE	SE	24	13N	20E	DO	2	13.70	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	2410DCR	DEC	---	1/1/887	SE	SE	24	13N	20E	DO	2	41.97	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	2410DCR	DEC	---	1/1/887	SE	SE	24	13N	20E	DO	2	1.78	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	2410DCR	DEC	---	1/1/887	SE	SE	24	13N	20E	DO	2	16.54	---	DEC	East Fork Carson River
105	John and Jacki Laxague	2410DCR	DEC	---	1/1/887	SE	SE	24	13N	20E	DO	2	28.00	---	DEC	East Fork Carson River
105	Hulbert, Noel E.	1731A	DEC	---	1/1/888	NW	SE	9	12N	20E	DO	2	16.46	---	IRR	Carson River
105	Carrie, Richard G. and Janna K.	5344A	DEC	244DCR	1/1/888	NE	SW	24	13N	19E	DO	2	16.26	---	DEC	East Fork Carson River
105	Lawrence L. Reese, Trust	5344A	DEC	46430	1/1/888	NE	SW	24	13N	19E	DO	2	8.85	---	DEC	East Fork Carson River
105	Colver Living Trust	5344A	DEC	244DCR	1/1/888	NE	SW	24	13N	19E	DO	2	8.70	---	DEC	East Fork Carson River
105	Cantwell, David V., Trustee	5344A	DEC	46430	1/1/888	NE	SW	24	13N	19E	DO	2	5.43	---	DEC	East Fork Carson River
105	Lavell, Robert D. & Adrian L.	5344A	DEC	15039	1/1/888	NE	SW	24	13N	19E	DO	2	4.09	---	DEC	East Fork Carson River
105	Atlas Development I, LLC	6442d	DEC	769DCR, 770DCR	1/1/888	SE	SE	33	17N	22E	LY	7	50.40	---	DEC	Carson River
105	Simek, Ronald	244DCR	DEC	---	1/1/888	NE	SW	24	13N	19E	DO	2	31.79	---	DEC	East Fork Carson River
105	Fricke, Gordon A.; Fricke, Mary Jo Anne	2488DCR	DEC	---	1/1/888	NW	SE	9	12N	20E	DO	2	7.00	---	DEC	East Fork Carson River
105	Hilbert, Noel Edgar; Hilbert, Peggie Marie	2460DCR	DEC	---	1/1/888	NW	SE	9	12N	20E	DO	2	15.00	---	DEC	East Fork Carson River
105	G. S. R. Struquower Company	2410DCR	DEC	---	1/1/888	SW	SW	2	11N	20E	DO	2	28.51	---	DEC	East Fork Carson River
105	Truquower Ranching, Inc., LLC	2410DCR	DEC	---	1/1/888	SW	SW	2	11N	20E	DO	2	88.00	---	DEC	West Fork Carson River
105	Truquower Ranching, Inc., LLC	2410DCR	DEC	---	1/1/888	SW	SW	2	11N	20E	DO	2	41.00	---	DEC	West Fork Carson River
105	Truquower Ranching, Inc., LLC	2410DCR	DEC	---	1/1/888	SW	SW	2	11N	20E	DO	2	41.00	---	DEC	West Fork Carson River
105	Truquower Ranching, Inc., LLC	2410DCR	DEC	---	1/1/888	SW	SW	2	11N	20E	DO	2	41.00	---	DEC	West Fork Carson River
105	Satchelmeier, Lawrence E.; Satchelmeier, Mary H.	5613C	DEC	---	1/1/888	SE	SE	23	12N	20E	DO	2	24.70	---	DEC	East Fork Carson River
105	Satchelmeier, Lawrence E.	6442C	DEC	---	1/1/889	SW	SW	24	12N	20E	DO	2	35.31	---	DEC	East Fork Carson River
105	Fricke, Gordon A.; Fricke, Mary Jo Anne	244DCR	DEC	---	1/1/889	NE	SW	10	12N	20E	DO	2	14.00	---	DEC	East Fork Carson River
105	Vidler Water Company	244DCR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	11.75	---	DEC	East Fork Carson River
105	Holzhack, Betty And Elmer	244DCR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	9.85	---	DEC	East Fork Carson River
105	Wheate, Robert E. & Twilite	244DCR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	1.48	---	DEC	East Fork Carson River
105	Makhiana, Alfred H. and Anna Lee	244DCR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	1.36	---	DEC	East Fork Carson River
105	** Cervenak, Robert F.	244DCR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rog	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Fitz, George	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hefflein, Edna A.	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hefflein, John H.	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Isaac, Alice L.	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Isaac, Edward	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Middelburg, Vance A.	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mullins, Robert W.	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rosser, Wallace A.	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Sullivan, Edward P.	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wheat, Robert	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wheat, Toyola	524DKR	DEC	---	1/1/889	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Friebe, Gordon A.; Friebe, Mary Jo June	524DKR	DEC	---	1/1/889	NE	SE	9	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Agreduct Ltd	524DKR	DEC	---	1/1/889	NE	NW	8	11N	20E	DO	4	54.00	---	DEC	West Fork Carson River
105	Agreduct Ltd	524DKR	DEC	---	1/1/889	NE	SW	5	11N	20E	DO	5	81.00	---	DEC	West Fork Carson River
105	** Bassman, Henry	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bassman, Lu Wine	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Memasters, John F.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mcmasters, Viola Maria	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nilse, Raibel	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rubenstroth, Henry W.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rubenstroth, Jennie I.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rubenstroth, Lois Ester	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Scroggin, Norman E.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Scroggin, Ruby Lee	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bible, Dennis W.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bible, Susan	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Chaney, C.W.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Clements, D.A.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Glavo, A.D.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bassman, Henry	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bassman, Lu Wine	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hefferin, Elizabeth A.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hefferin, Mike G.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jones, Laura I.	524DKR	DEC	---	1/1/889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Bash	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Jones, Max L.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Larsen, Don E.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Larsen, Verlene	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mcmasters, John F.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mcmasters, Viola Marie	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Meschem, Charles H.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Meschem, June L.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Millsap, Clyde W.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Millsap, Patricia M.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nibe, Rubel	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rubenstroth, Dennis I.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rubenstroth, Henry W.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rubenstroth, Lois Ester	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Skyles, Marie E.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Churchill, John W.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Concanon, Carolee A.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Concanon, James H.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Webb, Hazel E.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Webb, Kyle W.	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Rubenstroth, Ida	520DCR	DEC	---	1/1/1889	NW	SW	25	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	USFWS	613DCR	DEC	---	1/1/1889	NE	NW	25	12N	20E	DO	2	4.69	---	DEC	East Fork Carson River
105	Carson Water Subconservancy District	5472R	PER	---	1/1/1890	NE	SE	34	11N	19E	DO	4	---	73.25 aff	STO	West Fork Carson River
105	Gabriel, Francis M., Galegh, Leo B.	444DCR	DEC	---	1/1/1891	SE	SE	24	13N	19E	DO	2	---	---	DEC	East Fork Carson River
105	Lawrence, James A.	4964	DCR (msh)	---	1/1/1892	NW	SE	9	12N	20E	DO	2	3.00	---	TRR	East Fork Carson River
105	James, Lynae	22035	PER	---	1/1/1892	SE	SE	23	12N	20E	DO	2	20.00	---	DEC	Carson River
105	Settelmyer Ranches Inc	29052	PER	72395, 408DCR, 409DCR	1/1/1892	SE	SE	23	12N	20E	DO	2	477.70	---	DEC	East Fork Carson River
105	Bacon, Mary Parker, Bacon, Milton Edward	143DCR	DEC	---	1/1/1892	SE	SE	29	10N	20E	AL	1	12.50	---	DEC	Pleasant Valley Creek
105	Bacon, Mary Parker, Bacon, Milton Edward	123DCR	DEC	---	1/1/1892	NE	SE	29	10N	20E	AL	1	31.90	---	DEC	Pleasant Valley Creek
105	S.W. Lawrence Living Trust	385DCR	DEC	---	1/1/1892	NW	SE	9	12N	20E	DO	2	11.57	---	DEC	East Fork Carson River
105	J.C. Lawrence Living Trust	385DCR	DEC	---	1/1/1892	NW	SE	9	12N	20E	DO	2	11.58	---	DEC	East Fork Carson River
105	Chas. Lawrence Living Trust	385DCR	DEC	---	1/1/1892	NW	SE	9	12N	20E	DO	2	9.974	---	DEC	East Fork Carson River
105	Chas. Lawrence Living Trust	385DCR	DEC	---	1/1/1892	NW	SE	9	12N	20E	DO	2	4.72	---	DEC	East Fork Carson River
105	E. and B. Lawrence Family Trust	385DCR	DEC	---	1/1/1892	NW	SE	9	12N	20E	DO	2	1.62	---	DEC	East Fork Carson River
105	J.A. and G. Lawrence NV Trust	385DCR	DEC	---	1/1/1892	NW	SE	9	12N	20E	DO	2	8.00	---	DEC	East Fork Carson River
105	White, John Henry & Wanda G. Overland Holding Co.	4684DCR	DEC	---	1/1/1893	NE	SW	14	12N	20E	DO	2	0.40	---	DEC	East Fork Carson River
105	The Outdoorsman	3684DCR	DEC	---	1/1/1893	NE	SW	14	12N	20E	DO	2	0.25	---	DEC	East Fork Carson River
105	Shuman, Verlan R.	4204DCR	DEC	---	1/1/1893	NE	SW	14	12N	20E	DO	2	0.10	---	DEC	East Fork Carson River
105	Imelli, Harold	471DCR	DEC	---	1/1/1893	NE	SW	14	12N	20E	DO	2	1.20	---	DEC	East Fork Carson River
105	Overland Holding Co.	474DCR	DEC	---	1/1/1893	NE	SW	14	12N	20E	DO	2	0.45	---	DEC	East Fork Carson River
105	Settelmyer, Lawrence and Mary	671DCR	DEC	---	1/1/1893	SE	SE	23	12N	20E	DO	2	4.70	---	DEC	East Fork Carson River

Prepared by Resource Concepts, Inc. Page 36 of 45 Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Consolidated Municipality Of Carson City	43824	43824	250DCR	1/1/1894	NE	SW	24	13N	19E	DO	2	---	240 afa	QM	Carson River
105	** Allegretti & Co.	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Datri, John	43330DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Datri, Livia	43330DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Luther, Dorothy	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Luther, Harold	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, Clifford	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, Janet	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Schwarzer, Esther	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Schwarzer, Henry	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Thibault, Fred H.	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Thibault, Ronald F.	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wagner, Alexander	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Wagner, Michele M.	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Waldrep, Jeanette M.	43331DCR	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Hussman Land & Investment Company	4091DCR	DEC	---	1/1/1894	NE	NE	9	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Hitt, William And Jenna Wollers	4243DCR	DEC	---	1/1/1894	NE	SW	24	13N	19E	DO	2	22.40	---	DEC	East Fork Carson River
105	** Cervenaik, Robert F.	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fitz, George	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Helwinski, Edna A.	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Helwinski, John H.	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Issue, Alice L.	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Issue, Edward	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Midaugh, Vance A.	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mullins, Robert W.	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rosser, Wallace A.	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Sullivan, Edward P.	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Whear, Robert	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Whear, Twyla	4251DCR	DEC	---	1/1/1894	NW	SW	10	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Chelcher Benton Lawrence Trust	43824	DEC	---	1/1/1894	NW	SE	9	12N	20E	DO	2	2.77	---	DEC	East Fork Carson River
105	U.S. Forest Service	43824	DEC	---	1/1/1894	NW	SE	9	12N	20E	DO	2	2.77	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	43824	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	274.37	---	DEC	East Fork Carson River
105	Par Ranch Holdings, LLC	43824	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	274.37	---	DEC	East Fork Carson River
105	Getty Duncan M.	43824	DEC	---	1/1/1894	SE	SE	23	12N	20E	DO	2	35.37	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	46524	43824	43824	1/1/1895	SW	SW	24	12N	20E	DO	2	19.00	---	IRR	Carson River
105	Bentley Family Limited Partnership	46524	43824	43824	1/1/1895	SW	SW	24	12N	20E	DO	2	467.77	---	IRR	Carson River
105	Bentley Pressurized Bearing Company	46524	43824	48960, 1088DCR	1/1/1895	SE	SE	23	12N	20E	DO	2	441.83	---	DEC	Carson River

Prepared by Resource Concepts, Inc. Page 37 of 45 Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Yelinas Farm LLC	4182A	PER	55103-102DCR	1/1/1895	SE	SE	23	12N	20E	DO	2	0.86	---	IRR	Carson River
105	Bentley Family Limited Partnership	4786A	E24E	46529, 49899, 100DCR	1/1/1895	SW	SW	24	12N	20E	DO	2	61.68	---	DEC	Carson River
105	Carl Gerhardt Living Trust	4857A	RFA	127DCR	1/1/1895	SE	SE	23	12N	20E	DO	2	---	---	DEC	Carson River
105	Bentley Family Limited Partnership	4003DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	159.00	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	4011DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	78.00	---	DEC	East Fork Carson River
105	Mik Family Trust	4043DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	2.89	---	DEC	East Fork Carson River
105	Allegretti And Company	4044DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	64.01	---	DEC	East Fork Carson River
105	The Waldrop Family Trust, Dated 4/24/1988	4045DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	54.52	---	DEC	East Fork Carson River
105	Gerty D. and Mildred Mary S. Thibodeau, Fred A. and Mildred M. DFA, LLC	4046DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	29.48	---	DEC	East Fork Carson River
105	Crockett Enterprises, Inc.	4047DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Garrison Construction, Inc.	4048DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	7.43	---	DEC	East Fork Carson River
105	Block, Roger R. and Gavle P.	4049DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	6.80	---	DEC	East Fork Carson River
105	Douglas County	4050DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.91	---	DEC	East Fork Carson River
105	Datri, John J. and Livia J.	4051DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.00	---	DEC	East Fork Carson River
105	Luther, Harold M. and Dorothy F.	4052DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.04	---	DEC	East Fork Carson River
105	Nilemont, Inc.	4053DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.25	---	DEC	East Fork Carson River
105	Crockett, Carlson and Nilemont	4054DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.00	---	DEC	East Fork Carson River
105	James Family Trust	4055DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.89	---	DEC	East Fork Carson River
105	Schumaker, Donald and Dorothy	4056DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.62	---	DEC	East Fork Carson River
105	Shible-Jager Associates	4057DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.53	---	DEC	East Fork Carson River
105	Park Meridian Associates	4058DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.13	---	DEC	East Fork Carson River
105	Miller, Clifford E. and Janet E.	4059DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.03	---	DEC	East Fork Carson River
105	Schwartz, Henry and Esther	4060DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.73	---	DEC	East Fork Carson River
105	Whitcross Limited Partnership	4061DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.67	---	DEC	East Fork Carson River
105	Shible, Al Jager 1888 Family Trust	4062DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.06	---	DEC	East Fork Carson River
105	Hidden Lake Properties, Inc.	4063DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	69.04	---	DEC	East Fork Carson River
105	Allesenti Abd Co	4064DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	54.52	---	DEC	East Fork Carson River
105	Walthrop, Jeanette M.	4065DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	49.48	---	DEC	East Fork Carson River
105	Gerty, Eucania M. and Mary S. DFA, LLC	4066DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	40.00	---	DEC	East Fork Carson River
105	Thibodeau, Ronald F.	4067DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	7.93	---	DEC	East Fork Carson River
105	Carlson Construction, Inc.	4068DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	6.53	---	DEC	East Fork Carson River
105	Block, Roger R. and Gavle P.	4069DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.91	---	DEC	East Fork Carson River
105	Douglas County	4070DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.00	---	DEC	East Fork Carson River
105	Datri, John and Livia	4071DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.25	---	DEC	East Fork Carson River
105	Luther, Harold and Dorothy	4072DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.00	---	DEC	East Fork Carson River
105	Nilemont, Inc.	4073DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	2.89	---	DEC	East Fork Carson River
105	Crockett, Carlson, Nilemont, Inc.	4074DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	2.89	---	DEC	East Fork Carson River
105	Wagner, Alexander R. and Michele M.	4075DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.89	---	DEC	East Fork Carson River
105	James Family Trust	4076DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.62	---	DEC	East Fork Carson River
105	Schumaker, Donald and Dorothy	4077DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.43	---	DEC	East Fork Carson River
105	Whitcross Limited Partnership	4078DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.03	---	DEC	East Fork Carson River
105	Shible, Al Jager 1888 Family Trust	4079DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.03	---	DEC	East Fork Carson River
105	Miller, Clifford and Janet	4080DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.03	---	DEC	East Fork Carson River
105	Schwartz, Henry and Esther	4081DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.73	---	DEC	East Fork Carson River
105	Whitcross Limited Partnership	4082DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.23	---	DEC	East Fork Carson River
105	Ross, Robert A. and Mary	4083DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.16	---	DEC	East Fork Carson River
105	Jager 1988 Family Trust	4084DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.07	---	DEC	East Fork Carson River
105	Hidden Lake Properties, Inc.	4085DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.06	---	DEC	East Fork Carson River
105	Thibodeau, Fred A. and Mildred M.	4086DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	<1	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	4087DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	135.70	---	DEC	East Fork Carson River
105	Grace Community Church	4088DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	80.00	---	DEC	East Fork Carson River
105	Aldax, Andrew; Aldax, Carol	4089DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	77.60	---	DEC	East Fork Carson River
105	Uhart, Nicholas	4090DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	78.30	---	DEC	East Fork Carson River
105	Bentley Pressurized Heating Company	4091DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	19.00	---	DEC	East Fork Carson River
105	Marshall, Emory Laughlin; Marshall, Irene N.	4092DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	41.20	---	DEC	East Fork Carson River
105	Bentley Pressurized Heating Company	4093DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	19.00	---	DEC	East Fork Carson River
105	Marshall, Emory Laughlin; Marshall, Irene N.	4094DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	98.60	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD River Segment	Acres	AFA	Use	Source Description
105	Bentley Family Limited Partnership	4043DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	75.00	East Fork Carson River
105	Martin Brothers Land Co.	4110DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	5.00	East Fork Carson River
105	Aldax, Andrew, Aldax, Carol	4143DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	5.00	East Fork Carson River
105	Aldax Family Trust Agreement	4143DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	49.00	East Fork Carson River
105	Bentley Family Limited Partnership	4143DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	38.80	East Fork Carson River
105	Thart Nicholas	4143DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	40.00	East Fork Carson River
105	Thart Nicholas	4143DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	38.00	East Fork Carson River
105	Bentley Family Limited Partnership	4143DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	30.00	East Fork Carson River
105	Bentley Family Limited Partnership	4143DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	48.80	East Fork Carson River
105	Edwards, Frances, Alfred, Edwards, Charles D.	4143DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	20.00	East Fork Carson River
105	Edwards, Donald F.	4143DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	10.00	East Fork Carson River
105	Bentley Family Limited Partnership	4203DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	27.98	East Fork Carson River
105	Bentley, Donald E.	4203DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	19.45	East Fork Carson River
105	Commission, Tomette	4203DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	16.00	East Fork Carson River
105	Carrisen, Anna and Martin	4203DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	5.06	East Fork Carson River
105	Bentley Family Limited Partnership	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	39.31	East Fork Carson River
105	Kruger, Caleb and Stacy	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	30.80	East Fork Carson River
105	Bentley Family Limited Partnership	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	25.06	East Fork Carson River
105	Bentley Family Limited Partnership	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	10.47	East Fork Carson River
105	JBY Investments, LLC	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	6.17	East Fork Carson River
105	Timonitis, Kenia	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	6.00	East Fork Carson River
105	Harker, Roger G. and Sheryl M.	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	4.30	East Fork Carson River
105	Stinden-Town	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	15.60	East Fork Carson River
105	Bentley Family Limited Partnership	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	9.00	East Fork Carson River
105	Harker, Roger and Sheryl	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	6.17	East Fork Carson River
105	The 925 JL Trust, HP Incorporated	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	1.80	East Fork Carson River
105	Midwest Town Trustee	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	30.00	East Fork Carson River
105	Johnson, F.M.; Johnson, Martha W.; Johnson, William	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	48.00	East Fork Carson River
105	Servco, LLC	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	37.25	East Fork Carson River
105	Johnson, Martin and Susan D.	4243DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	35.41	East Fork Carson River
105	Black Horse Ranch LLC	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	19.67	East Fork Carson River
105	Daniel, Michael John and Gail Marie	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	10.00	East Fork Carson River
105	Daniels, Frank C. and Carol Ann	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	10.00	East Fork Carson River
105	Larkin, Scott W. and Lisa J.	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	10.00	East Fork Carson River
105	Podoso 2026 Trust	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	10.00	East Fork Carson River
105	Uhart, Loren N. and Carol J.	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	10.00	East Fork Carson River
105	Bertman, Bruce L. and Path A.	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	9.72	East Fork Carson River
105	Tarter, John N., Kimberlee A.	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	8.92	East Fork Carson River
105	Mik Family Trust	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	8.21	East Fork Carson River
105	DBER, LLC	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	3.88	East Fork Carson River
105	Betseg, Michael Philip and Jada June and Sharon M. Carlson, William C. and Mary June K. Adams Revocable Estate Trust	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	3.86	East Fork Carson River
105	Regina Beth and Brian McKean	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	3.84	East Fork Carson River
105	Colleen, Glenn and Jiblie	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	2.58	East Fork Carson River
105	Richardson, Bonnie L.	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	0.72	East Fork Carson River
105	Bonnie, June Irene and Welch, Nancy	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	38.10	East Fork Carson River
105	Smith, Brian and Leslie	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	28.50	East Fork Carson River
105	SS Investments	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	28.26	East Fork Carson River
105	Smith, Marvin L. and Lynn P.	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	12.04	East Fork Carson River
105	Smith, Brian Warner	4273DKR	DEC	---	1/1/8905	SE	SE	23	12N	20E	DO	2	11.90	East Fork Carson River
105	Magill, William and Eva	4273DKR	DEC	---	1/1/8905	SE	SE	9	12N	20E	DO	2	11.74	East Fork Carson River
105	Carson Water Subconservancy	4273DKR	DEC	---	1/1/8905	SE	SE	9	12N	20E	DO	2	41.59	East Fork Carson River
105	Bentley Family Limited Partnership	4273DKR	DEC	---	1/1/8905	SE	SE	9	12N	20E	DO	2	10.66	East Fork Carson River
105	Sierra Nevada Landco	4273DKR	DEC	---	1/1/8905	SE	SE	9	12N	20E	DO	2	2.49	East Fork Carson River
105	Summit Homes LTD	4273DKR	DEC	---	1/1/8905	SE	SE	9	12N	20E	DO	2	0.68	East Fork Carson River
105	Friede, Fred and Alma	4273DKR	DEC	---	1/1/8905	SE	SE	9	12N	20E	DO	2	0.60	East Fork Carson River
105	Nicholson Partners LTD	4273DKR	DEC	---	1/1/8905	SE	SE	9	12N	20E	DO	2	0.40	East Fork Carson River
105	Vallier Water Conservancy, Inc.	4273DKR	DEC	---	1/1/8905	SE	SE	9	12N	20E	DO	2	0.18	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Church Jesus Christ Latter Day	201DCR	DEC	---	1/1/1895	SE	SE	9	12N	20E	DO	2	0.43	---	DEC	East Fork Carson River
105	Frickle, Gordon A.; Frickle, Mary Jo Anne	201DCR	DEC	---	1/1/1895	NE	SE	9	12N	20E	DO	2	3.90	---	DEC	East Fork Carson River
105	Helfordist, Betty Ann Elmer	201DCR	DEC	---	1/1/1895	SE	SW	9	12N	20E	DO	2	9.00	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	201DCR	DEC	---	1/1/1895	NE	SW	32	12N	20E	DO	2	180.00	---	DEC	East Fork Carson River
105	Hite, Ronald E. and Laverne M.	201DCR	DEC	---	1/1/1895	SE	NE	23	12N	19E	DO	2	16.00	---	DEC	West Fork Carson River
105	Roeder, Donald L. et al	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	17.81	---	DEC	East Fork Carson River
105	Blagov, Robert and Blagov, Blagov	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	13.21	---	DEC	East Fork Carson River
105	KNS's Family Trust Dated 1/28/2017	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.01	---	DEC	East Fork Carson River
105	Rogers, Robert and Rogers, H.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.54	---	DEC	East Fork Carson River
105	Roberts, Steven and Roberts, M.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.09	---	DEC	East Fork Carson River
105	Berthoin Trust Dated Oct 11, 1989	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	4.20	---	DEC	East Fork Carson River
105	Stockland Living Trust	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	4.51	---	DEC	East Fork Carson River
105	The Alazzi 2012 Family Trust	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	4.01	---	DEC	East Fork Carson River
105	Jessica M. Tierney, Henry J. Bohrmann and Andrea E. Bohrmann	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	4.41	---	DEC	East Fork Carson River
105	Annette Ferry Trust Dated January 21, 1998	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.77	---	DEC	East Fork Carson River
105	Ferry, Mary Bauer Trust	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.64	---	DEC	East Fork Carson River
105	Pietzak, Jess K. and Roy M.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.56	---	DEC	East Fork Carson River
105	Roeder, Donald L. & Tom M.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.40	---	DEC	East Fork Carson River
105	Frost, Jeffery B. and Susan Jane Avila	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.10	---	DEC	East Fork Carson River
105	Gessinger, Michael P and Denise S	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	2.75	---	DEC	East Fork Carson River
105	Collins, Edwin C. and Elizabeth A.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.65	---	DEC	East Fork Carson River
105	Golden, James B. and Grace B.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.05	---	DEC	East Fork Carson River
105	Schmitt, Carl W. and Grace M.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.05	---	DEC	East Fork Carson River
105	Scott, John F. and Karen I.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.05	---	DEC	East Fork Carson River
105	Carl Gerhard Living Trust Dated 12/28/2006	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.43	---	DEC	East Fork Carson River
105	Park Cattle Company	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	31.48	---	DEC	East Fork Carson River
105	Beckwith, Robert and Beckwith, J.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	3.19	---	DEC	East Fork Carson River
105	H.F. Dunsberg Land and Livestock Co.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.40	---	DEC	East Fork Carson River
105	Margaret C. Goble, Trustee of the 1998 Margaret C. Goble Trust	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Fertitta, Michael S. and Roxanne L.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.55	---	DEC	East Fork Carson River
105	Handy, Susan E.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.42	---	DEC	East Fork Carson River
105	H.F. Dunsberg Land and Livestock Co.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	23.89	---	DEC	East Fork Carson River
105	Jonhoy Family Trust Dated 1/29/2014	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Guthrie, William E. and Linda C.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Pesenti, Pamela B.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	9.43	---	DEC	East Fork Carson River
105	Hank, Susan E. Hanby	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	8.97	---	DEC	East Fork Carson River
105	Mary Bonner Ferry Trust	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	6.53	---	DEC	East Fork Carson River
105	Fertitta, Michael S. and Roxanne L.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.94	---	DEC	East Fork Carson River
105	Stover, Keith D.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	4.81	---	DEC	East Fork Carson River
105	Amette Ferry Trust	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	4.47	---	DEC	East Fork Carson River
105	Petersen, Gary and Dorothy	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	24.73	---	DEC	East Fork Carson River
105	Park Ranch Holdings, LLC	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	20.08	---	DEC	East Fork Carson River
105	Middletons, William and Sandra	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	19.70	---	DEC	East Fork Carson River
105	Park Cattle Co.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	17.72	---	DEC	East Fork Carson River
105	Becky Proctor and Becky Proctor	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	13.02	---	DEC	East Fork Carson River
105	Richard Mackay and Leanne S. E.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	12.07	---	DEC	East Fork Carson River
105	Fourth Family Trust Amended March 1, 2009	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	11.40	---	DEC	East Fork Carson River
105	The Robert Chisner Family Trust	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	McNamee, Matthew R. and Beka Kingston	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	9.14	---	DEC	East Fork Carson River
105	Simsom, Stephen D. and Kelle L.	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	6.93	---	DEC	East Fork Carson River
105	Avery Family Trust	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	2.99	---	DEC	East Fork Carson River
105	Newell, Gary and Suzanne	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.87	---	DEC	East Fork Carson River
105	Laxague, John and Andrea	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.95	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	68.638	---	DEC	East Fork Carson River
105	Bentley Nevada Corporation	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	344.80	---	DEC	East Fork Carson River
105	Bentley Nevada Corporation	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	302.90	---	DEC	East Fork Carson River
105	Park Cattle Company	201DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	21.48	---	DEC	East Fork Carson River
105	Bence Reeves Family Trust	201DCR	RFA	667DCR	1/1/1895	SW	SW	11	13N	19E	DO	2	---	---	RR	Carson River
105	Hellmold, Fritz	201DCR	DEC	---	1/1/1895	SW	SW	19	13N	19E	DO	2	9.00	---	DEC	East Fork Carson River
105	Sanguineti, Bruce I. and Stephanie J.	201DCR	DEC	---	1/1/1895	SW	SW	11	13N	19E	DO	2	3.09	---	DEC	Carson River
105	Emerson, Bradford J. and Holly J	201DCR	DEC	---	1/1/1895	SW	SW	11	13N	19E	DO	2	2.40	---	DEC	Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Bruce Reeves Family Trust, Dated 10/12/2006	465DKR	DEC	---	1/1/1896	SW	SW	11	13N	19E	DO	2	2.38	---	DEC	Carson River
105	** Ashour, L.J.	467DKR	DEC	---	1/1/1896	SW	SW	11	13N	19E	DO	2	Unsubdivided	---	DEC	Carson River
105	** Elmore, H.B.	467DKR	DEC	---	1/1/1896	SW	SW	11	13N	19E	DO	2	Unsubdivided	---	DEC	Carson River
105	** Elmore, Wilma L.	467DKR	DEC	---	1/1/1896	SW	SW	11	13N	19E	DO	2	Unsubdivided	---	DEC	Carson River
105	** Fufriman, M.T.	467DKR	DEC	---	1/1/1896	SW	SW	11	13N	19E	DO	2	Unsubdivided	---	DEC	Carson River
105	** McConnell, J.H.	467DKR	DEC	---	1/1/1896	SW	SW	11	13N	19E	DO	2	Unsubdivided	---	DEC	Carson River
105	** Sevilla, Fidel G.	467DKR	DEC	---	1/1/1896	SW	SW	11	13N	19E	DO	2	Unsubdivided	---	DEC	Carson River
105	** Spinella, T. B.	467DKR	DEC	---	1/1/1896	SW	SW	11	13N	19E	DO	2	Unsubdivided	---	DEC	Carson River
105	** Terry, Terry M.	467DKR	DEC	---	1/1/1896	SW	SW	11	13N	19E	DO	2	Unsubdivided	---	DEC	Carson River
105	Hullbert, Noel Edgar; Hullbert, Peggie Marie	467DKR	DEC	---	1/1/1897	NW	SE	9	12N	20E	DO	2	5.00	---	DEC	East Fork Carson River
105	Peter & Lase Simont, William & Mary Simont, Robert & Dawn Simont	468DKR	DEC	---	1/1/1897	SE	SE	7	12N	20E	DO	2	23.00	---	DEC	East Fork Carson River
105	Larroy, Julian; Larroy, Sibel	468DKR	DEC	---	1/1/1897	SE	SE	7	12N	20E	DO	2	3.00	---	DEC	East Fork Carson River
105	** Minden-Town	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Minden-Town	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bentley Family LLC	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	2.09	---	DEC	East Fork Carson River
105	Helbenthal Family LLC	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	1.56	---	DEC	East Fork Carson River
105	** Allerman, E.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	0.52	---	DEC	East Fork Carson River
105	** Anderson, H.L.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Arraiz, M.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Arraiz, S.L.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ashurst, Iva F.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bason, Milton E.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Batchelder, J.E.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Beck, R.M.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Benson, M.C.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bentley Nevada Corporation	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Berg, R.W.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bernard, E.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bernard, H.D.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Bernard, M.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Booth, J.N.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brinkman, Gladys A.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Brett, W.D.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Callahan, T.J.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Canatsey P.	468DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Camstrey R.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Chickester, E.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Cleopoli, J.H.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Custis, R.E.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Dangberg, H.F.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Darrough, J.T.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Doane, J.A.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Douglas County Library	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Douglas County School District	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Ellis, D.K.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Elchegoyben, J.E.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fallert, L.J.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fenner, A.M.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fenner, J.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Fingar, L.P.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Frakes, Violet G.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Frustone, Bess	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Galeppi, Leo B.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Gilbert, C.I.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Giovannini, M.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Godecke, C.W.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Godecke, W.G.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Graham, George D.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Graham, Jessie	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** H.F. Dangberg Land and Live Stock Co.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Harvey, D.M.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Heise, F.C.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hickey, James M.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hind, Gwenloien	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hubbert, Noel E.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Hubbert, Peggy M.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Husman, James A.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Husman, W.L.	3000DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Town ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Jacobson, Bertha	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jacobson, L.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jarrett, E.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jarrett, S.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Jepson, Hans R.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Johnson, A.H.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Johnson, Bruce A.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Johnson, Janet	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Krick, G.L. (Deceased)	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Leckberry, J.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Leckberry, S.Y.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Lundegreen, A.M.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mack, Duane	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mack, M.E.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Malo, J.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mausel, W.M.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mays, P.L.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Mcmasters, V.M.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Miller, J.A.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Minden Coop Creamery	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Minden Milling Co.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Morphlen, K.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Morphlen, M.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Morris, C.H.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Nelson, C.W. (Heirs)	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Page, James	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Pask, Laverne G.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Petersen, H.R.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Petersen, H.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Pohl, Vernita H.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Reed, Warren W.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Rockholm, F.C.	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Roman Catholic Church, Bishop of NV	3900DKR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	Unsubdivided	---	DEC	East Fork Carson River

Data are provisional and subject to revision at any time.
 Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	** Reinmuth, H.	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Saffley, Daphine E.	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Sanford, Graham	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Sanford, Jeanne	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Seddon, S.V.	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Settlemeyer, F.	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Settlemeyer, L.	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Settlemeyer, M.F.	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Smith, Gladys W.	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	** Spring, F.O.	566DCR	DEC	---	1/1/1897	NE	SW	14	12N	DO	2	Unsubdivided	---	DEC	East Fork Carson River
105	Bentley Family Limited Partnership	566DCR	DEC	---	1/1/1897	SE	SW	8	11N	DO	4	Unsubdivided	---	DEC	East Fork Carson River
105	Hellmuth, Fritz	566DCR	DEC	---	1/1/1897	NW	SW	10	12N	DO	2	18.00	---	DEC	East Fork Carson River
105	The Ronald & Marilyn Durkin Family Trust, Dated January 9, 1995	566DCR	DEC	---	1/29/1865	NE	NW	19	12N	DO	5	44.76	---	DEC	West Fork Carson River
105	Steve and Suzanne Brown	566DCR	DEC	---	1/29/1865	NE	NW	19	12N	DO	5	33.14	---	DEC	West Fork Carson River
105	Douglas J. and Nancy D. Brudshaw	566DCR	DEC	---	1/29/1865	NE	NW	19	12N	DO	5	9.10	---	DEC	West Fork Carson River
105	Frederick and Lolamary Dressler Fam TR	566DCR	DEC	---	1/29/1865	NW	NE	5	11N	DO	5	4.31	---	DEC	West Fork Carson River
105	LDM Living Trust Dated November 10, 2005	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	41.72	---	DEC	West Fork Carson River
105	Brown, Steve and Suzanne	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	30.00	---	DEC	West Fork Carson River
105	James H. and Cynthia L. Haise Trust	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	18.28	---	DEC	West Fork Carson River
105	Bradshaw Douglas J. and Nancy D.	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	9.40	---	DEC	West Fork Carson River
105	Ronald and Marilyn Durkin Family Trust	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	7.80	---	DEC	West Fork Carson River
105	Paula Patrick and Carolyn E. Dressler	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	7.19	---	DEC	West Fork Carson River
105	Frederick and Lolamary Dressler Family Trust Dated April 27, 1990	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	1.81	---	DEC	West Fork Carson River
105	West Fork Sierra Vista Estates	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	46.42	---	DEC	West Fork Carson River
105	Noble, Steven and Corinne, Noble LT	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	19.01	---	DEC	West Fork Carson River
105	Paul Franklin and Janet Koval, Trustees of the Franklin-Koval Living Trust Dated February 5, 2008	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	17.28	---	DEC	West Fork Carson River
105	Pava, Patrick A. and Nancy E. Febrary 5, 2008	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	6.96	---	DEC	West Fork Carson River
105	Bergova, L2, L1, Russell P, L2, L1	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	3.45	---	DEC	West Fork Carson River
105	Misain Family Trust	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	1.77	---	DEC	West Fork Carson River
105	Dressler Family Trust	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	0.05	---	DEC	West Fork Carson River
105	Frederick and Lolamary Dressler Fam TR	566DCR	DEC	---	1/29/1865	NW	NE	5	11N	DO	5	0.41	---	DEC	West Fork Carson River
105	West Fork Sierra Vista Estates	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	26.48	---	DEC	West Fork Carson River
105	Misain Family Trust	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	19.66	---	DEC	West Fork Carson River
105	Robert H. Brown, SR	566DCR	DEC	---	1/29/1865	NW	SW	12	12N	DO	5	4.85	---	DEC	West Fork Carson River
105	Dressler, Frederick and Lola Mary FT	566DCR	DEC	---	1/29/1865	SE	NW	13	12N	DO	5	7.00	---	DEC	West Fork Carson River
105	Bentley Family Limited Partnership	566DCR	PER	---	3/1/1859	NW	SE	34	11N	DO	4	118.40	---	STO	West Fork Carson River
105	Brooke, Thomas & Charlotte	566DCR	PER	---	3/1/1859	NW	SE	34	11N	DO	4	58.2 afa	---	STO	West Fork Carson River
105	Bentley Family Limited Partnership	566DCR	PER	---	3/1/1853	SE	SE	15	11N	DO	4	6.86	103.85 afa	STO	West Fork Carson River
105	Bentley Family Limited Partnership	566DCR	PER	---	3/1/1865	NW	SE	34	11N	DO	4	91.40	---	STO	West Fork Carson River
105	Brooke, Thomas & Charlotte	566DCR	PER	---	3/1/1865	NW	SE	34	11N	DO	4	11.80	---	STO	West Fork Carson River
105	Bentley Family Limited Partnership	566DCR	PER	---	3/1/1865	NW	SE	34	11N	DO	4	67.40	---	STO	West Fork Carson River
105	Brooke, Thomas & Charlotte	566DCR	PER	---	3/1/1865	NW	SE	34	11N	DO	4	4.80	---	STO	West Fork Carson River
105	Bentley Family Limited Partnership	566DCR	PER	---	3/1/1865	NW	SE	34	11N	DO	4	---	88.05 afa	STO	West Fork Carson River
105	Bentley Family Limited Partnership	566DCR	DEC	---	3/1/1865	SE	SE	18	11N	DO	4	13.01	---	STO	West Fork Carson River
105	Bentley Family Limited Partnership	566DCR	PER	---	3/1/1864	NW	SE	34	11N	DO	4	---	102.45 afa	STO	West Fork Carson River

Data are provisional and subject to revision at any time. Updated November 21, 2019

Provisional Summary of Carson River Water Rights

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qu	POD Qtr	POD Sec	POD Town	POD Ship	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Beus, Herbert E.	414DCR	DEC	---	4/1/864	SW	SE	18	11N	20E	20E	AL	4	74.00	---	DEC	West Fork Carson River
105	Bentley Family Limited Partnership	547294	PER	639DCR	4/1/889	NW	SE	34	11N	19E	19E	DO	4	411.2716	---	STO	West Fork Carson River
105	Frederick and Lolamary Dressler Farm TR	626665	154102	639DCR	5/1/880	NE	SW	5	11N	20E	20E	DO	5	68.00	---	DEC	West Fork Carson River
105	Frederick and Lolamary Dressler Farm TR	626666	150228	639DCR	5/1/880	NW	NE	5	11N	20E	20E	DO	5	499.42	---	DEC	West Fork Carson River
105	John Sheldon Clark and James E. Hughes, JR. Trustees under the trust created in the Last Will and Testament of Charles Martin Clark, JR.	626666	150228	639DCR	5/1/880	NW	NE	5	11N	20E	20E	DO	5	1.03	---	DEC	West Fork Carson River
105	Frederick and Lolamary Dressler Farm TR	626667	154411	639DCR	5/1/880	NW	NE	5	11N	20E	20E	DO	5	0.78	---	DEC	West Fork Carson River
105	Frederick and Lolamary Dressler Farm TR	626668	154102	640DCR	5/1/880	NE	SW	5	11N	20E	20E	DO	5	65.00	---	DEC	West Fork Carson River
105	The Frederick And Lolamary Dressler Family Trust	766851	PER	66798, 629966, 639DCR	5/1/880	NW	NE	5	11N	20E	20E	DO	5	7.87	---	DEC	West Fork Carson River
105	The Frederick And Lolamary Dressler Family Trust	699271	154104	DCR (mk)	8/4/879	NE	SW	5	11N	20E	20E	DO	5	27.99	---	DEC	West Fork Carson River
105	Loma Valley Ranch Company, Inc.	674106	DEC	464DCR	9/30/1879	NE	SE	34	11N	19E	19E	DO	4	298.00	---	DEC	West Fork Carson River
105	H. F. Dangleberg Land And Livestock Co.	414DCR	DEC	---	Repartition	NE	SE	3	09N	21E	21E	AL	1	89.30	---	DEC	Upper Heaman Creek
105	Dressler, Fred H.	12DCR	DEC	---	---	NW	NW	7	09N	20E	20E	AL	1	274.90	---	DEC	Pleasant Valley Creek
105	Bacon, Mary Parker; Bacon, Milton Edward	414DCR	DEC	---	---	SE	SE	29	10N	20E	20E	AL	1	55.30	---	DEC	Pleasant Valley Creek
105	Barrett, Horace; Barrett, June Edward	16DCR	DEC	---	---	SE	SE	29	10N	20E	20E	AL	1	13.00	---	DEC	Pleasant Valley Creek
105	Bacon, Mary Parker; Bacon, Milton Edward	16DCR	DEC	---	---	NE	SE	29	10N	20E	20E	AL	1	159.20	---	DEC	Pleasant Valley Creek
105	Bacon, Mary Parker; Bacon, Milton Edward	18DCR	DEC	---	---	NW	SE	22	10N	20E	20E	AL	1	20.80	---	DEC	East Fork Carson River
105	Barrett, Horace; Barrett, June Edward	49DCR	DEC	---	---	NW	SW	27	10N	20E	20E	AL	1	10.70	---	DEC	Indian Creek
105	Thornburg, Frederick; Thornburg, Nancy	24DCR	DEC	---	---	NW	SW	27	10N	20E	20E	AL	1	17.40	---	DEC	Thornburg Creek
105	State Of California	24DCR	DEC	---	---	SW	NW	24	10N	19E	19E	AL	1	49.20	---	DEC	Hill Spring Creek
105	State Of California	24DCR	DEC	---	---	SE	SW	24	10N	19E	19E	AL	1	52.60	---	DEC	St. John Creek
105	Marble Valley Corporation	24DCR	DEC	---	---	SW	NW	24	10N	20E	20E	AL	1	36.70	---	DEC	Hill Spring Creek
105	SPCC	24DCR	DEC	---	---	NW	NW	27	08N	21E	21E	AL	1	2.70	---	DEC	Proctor Creek
105	State	41DCR	DEC	---	---	NW	SW	12	08N	21E	21E	AL	1	22.50	---	DEC	Tributary Creek
105	Gonsberg, Chris H.; Gonsberg, Gansberg; Ellen H.; Gansberg, Fred H.	41DCR	DEC	---	---	NW	SE	6	10N	20E	20E	AL	4	60.00	---	DEC	Milberry Creek
105	Gansberg, Chris H.; Gansberg, Chris H. Jr.; Gansberg, Ellen H.; Gansberg, Fred H.	43DCR	DEC	---	---	SW	SW	5	10N	20E	20E	AL	4	132.80	---	DEC	Milberry Creek
105	Hawkins, Henry W. (Heirs)	44DCR	DEC	---	---	---	---	---	---	---	---	---	---	67.60	---	DEC	Scott Creek
105	Schwabe, H. R. (Clogston Ranch)	45DCR	DEC	---	---	---	---	---	---	---	---	---	---	20.00	---	DEC	Scott Creek
105	Schwabe, H. R. (Clogston Ranch)	45DCR	DEC	---	---	---	---	---	---	---	---	---	---	102.00	---	DEC	Indian Creek Dutch
105	F. Heise Land And Livestock Co., Inc.	47DCR	DEC	---	---	---	---	---	---	---	---	---	---	25.00	---	DEC	Indian Creek
105	Spee	48DCR	DEC	---	---	SW	SW	1	08N	21E	21E	AL	1	292.90	---	DEC	Silver Mine Creek
105	F. Heise Land and Livestock Co.	51DCR	DEC	---	---	---	---	---	---	---	---	---	---	at decreased	---	DEC	Indian Creek
105	Smith, Vermina (AKA Mrs. Ted Smith)	53DCR	DEC	---	---	---	---	---	---	---	---	---	---	171.60	---	DEC	Indian Creek
105	G. and S. E. Springmeier Co.	54DCR	DEC	---	---	---	---	---	---	---	---	---	---	94.30	---	DEC	Indian Creek
105	G. and S. E. Springmeier Co.	54DCR	DEC	---	---	---	---	---	---	---	---	---	---	292.00	---	DEC	Indian Creek
105	H. F. Dangleberg Land And Livestock Co.	40DCR	DEC	---	---	---	---	---	---	---	---	---	---	5.00	---	DEC	James Creek
105	H. F. Dangleberg Land And Livestock Co.	40DCR	DEC	---	---	---	---	---	---	---	---	---	---	15.00	---	DEC	James Creek
105	H. F. Dangleberg Land And Livestock Co.	40DCR	DEC	---	---	NE	NW	26	09N	21E	21E	AL	1	311.40	---	DEC	Rocky Slough
105	F. Heise Land and Livestock Co.	45DCR	DEC	---	---	SE	SW	32	09N	24E	24E	AL	1	171.40	---	DEC	Wolf Creek
105	Greater Capital Corp., Maroon Pacific, Inc.	10555R	DEC	---	---	SE	SE	10	12N	20E	20E	DO	2	72.40	---	IRR	Carson R. - Rocky Slough

Data are provisional and subject to revision at any time.
Updated November 21, 2019

Prepared by Resource Concepts, Inc.

Appendix B Carson River Named Tributaries – Sorted Alphabetically

The following data was extracted from the National Hydrography Dataset retrieved from The National Map (US Geological Survey, Unk).

#	Name	Length (miles)
1	A Line Canal	2.90
2	Allerman Canal	6.52
3	American Flat Wash	3.80
4	Ash Canyon Creek	6.73
5	Baily Drain	1.19
6	Barber Creek	2.08
7	Barney Riley Creek	4.73
8	Big Ditch	2.85
9	Branch One Drain	0.20
10	Brockliss Slough	11.14
11	Bryant Creek	9.31
12	Buck Creek	2.20
13	Buckeye Creek	24.90
14	Buckland Ditch	3.35
15	Carson Lake 1 Drain	1.75
16	Carson Lake A1 Extension Drain	1.44
17	Carson Lake Drain	5.11
18	Carson River	131.13
19	Charity Valley Creek	7.26
20	Clear Creek	13.84
21	Corral Valley Creek	2.97
22	Corsser Creek	1.66
23	Cottonwood Slough	4.66
24	Coyote Valley Creek	5.42
25	D 3 Canal	1.92
26	D Line Canal	0.54
27	Daggett Creek	3.26
28	Diamond Creek	11.38
29	Diamond Field Jack Wash	15.04
30	Diamond Valley Ditch	3.82
31	Dixon Creek	3.42
32	E Line Canal	3.96
33	Eagle Creek	1.74
34	East Canal	5.46
35	East Fork Carson River	68.04
36	East Lee Drain	1.13
37	Edna Wilslef Ditch	3.66
38	Elder Creek	1.71
39	Erb Drain	1.65
40	F 2 Drain	0.79
41	Falke and Tillman Ditch	5.97
42	Forestdale Creek	3.19
43	Fredericksburg Ditch	6.83
44	G 3 Canal	1.19
45	G Line Canal	3.26
46	G Line Drain	0.80
47	G Line Extension Drain	3.99
48	Gee Ditch	2.94
49	Gold Creek	6.45
50	Goose Lake Bypass	2.03
51	Grimes Slough	0.85
52	Grimes Slough Extension	0.99
53	Gummow Drain	2.67
54	Harmon Drain	2.93
55	Harmon Number One Drain	3.08
56	Hawkins Creek	3.16
57	Hazen Drain	2.44
58	Heenan Creek	2.28
59	Heise Company Ditch	0.51
60	Henningson Slough	4.08
61	Heyburn Ditch	8.86
62	Home Slough	5.06
63	Hot Springs Creek	8.24
64	Houghman and Howard Ditch	4.30
65	Humboldt Slough	3.01
66	Hunter Drain	4.50
67	Indian Creek	22.33
68	Jeff Davis Creek	2.85
69	Johnson Slough	2.97
70	Kent Drain	1.81
71	Kent Lake Drain	1.23
72	Kings Canyon Creek	4.25
73	Kinney Creek	2.57
74	Koch Ditch	4.25
75	KX Lateral Canal	2.41
76	L 12 Canal	5.32
77	L 3 Drain	3.65
78	L D Drain	0.50
79	L Drain	1.52
80	L Line Canal	11.79
81	L2 Drain	2.73
82	Lead Bypass Canal	1.53
83	Lead Lake Canal	2.54
84	Leviathan Creek	5.73
85	Lower Diagonal Drain	3.34
86	Lower Diagonal Number 1 Drain	4.66
87	Lower Old Virginia Canal	3.94
88	Lower Soda Lake Drain	3.65
89	Luther Creek	4.22
90	Markleeville Creek	2.57
91	Martin Slough	3.77
92	Maxwell Creek	1.57
93	Mexican Ditch	4.02
94	Millberry Creek	6.65
95	Millich Ditch	4.46
96	Mills Drain	1.42
97	Mineral Valley	6.64
98	Monitor Creek	4.75
99	Monument Creek	3.01
100	Mountaineer Creek	7.71
101	Musser and Jarvis Creek	3.78
102	Mussi Drain	0.84
103	N Line Canal	1.27
104	New River Drain	4.37
105	New River Extension Branch Drain	2.84
106	New River Slough	4.18
107	Noble Creek	5.72
108	Norton Drain	1.37
109	O Line Canal	3.14
110	Otts Creek	2.39

111	Packard Wash	30.14
112	Paiute Diversion Drain	3.15
113	Paiute Drain	2.94
114	Paiute Wash	4.98
115	Park and Bull Slough	2.48
116	Pennsylvania Creek	4.00
117	Pierson Slough	0.38
118	Pine Nut Creek	16.01
119	Pleasant Valley Creek	12.60
120	Poison Creek	6.16
121	Ponte Drain	1.47
122	Poor Boy Creek	2.27
123	R Drain	2.53
124	R Line Canal	2.97
125	Randall Creek	1.35
126	Randall Ditch	1.10
127	Raymond Canyon Creek	4.45
128	Raymond Meadows Creek	2.32
129	Red Lake Creek	5.67
130	Rice Ditch	0.63
131	Rock Dam Ditch	3.30
132	Rock Dam Ditch Number 1	4.51
133	Rocky Slough	5.35
134	S 2 Canal	0.42
135	S 5 A Drain	1.75
136	S 5 Canal	5.04
137	S 7 Canal	1.31
138	S Line Canal	12.68
139	Saint Louis Straight Ditch	1.99
140	Salt Creek	14.58
141	Sam Spring Wash	11.12
142	Sawmill Creek	3.46
143	Scott Creek	2.87
144	Shaffner Branch	0.52
145	Shaffner Drain	1.00
146	Shay Creek	1.75
147	Sheckler 1 Drain	2.03
148	Sheckler Drain	4.26
149	Sheridan Creek	1.83
150	Silver Creek	9.19
151	Silver Hill Creek	3.53
152	Silver King Creek	15.08
153	Smith's Creek	1.80
154	Snodgrass Creek	1.99
155	Snowshoe Thompson Ditch Number Two	3.37
156	S-One Canal	1.53
157	South Branch Carson River	4.87
158	South Fork Daggett Creek	2.63
159	South Upper Soda Lake Drain	1.94
160	Spratt Creek	5.17
161	Stillwater Point Reservoir Diversion Canal	4.10
162	Stillwater Slough	9.95
163	Swope Drain	1.67
164	T Line Canal	2.23
165	Tamarack Creek	3.26
166	Thoma Drain	1.39
167	UID Drain	1.93
168	Upper Cardelli Ditch	0.97
169	Upper New Virginia Canal	2.44
170	Upper Paiute Drain	1.74
171	Upper Soda Lake 1 Drain	1.51
172	Upper Soda Lake Drain	1.19
173	Upper West Side Drain	7.77

174	V Line Canal	5.92
175	Vaughn Slough	5.58
176	Vencill Drain	1.51
177	Virginia Creek	5.74
178	West Canal	3.13
179	West Carson Lake Drain	2.58
180	West Fork Carson River	39.61
181	West Fork of Old River	11.46
182	West Lee Drain	1.44
183	Williams Slough	7.05
184	Willow Creek	11.77
185	Winsett Drain	2.37
186	Wolf Creek	12.51
	Total Length	1,043.8

Appendix C Carson River Named Tributaries – Sorted by Length

The following data was extracted from the National Hydrography Dataset retrieved from The National Map (US Geological Survey, Unk).

#	Name	Length (miles)
1	Carson River	131.13
2	East Fork Carson River	68.04
3	West Fork Carson River	39.61
4	Packard Wash	30.14
5	Buckeye Creek	24.90
6	Indian Creek	22.33
7	Pine Nut Creek	16.01
8	Silver King Creek	15.08
9	Diamond Field Jack Wash	15.04
10	Salt Creek	14.58
11	Clear Creek	13.84
12	S Line Canal	12.68
13	Pleasant Valley Creek	12.60
14	Wolf Creek	12.51
15	L Line Canal	11.79
16	Willow Creek	11.77
17	West Fork of Old River	11.46
18	Diamond Creek	11.38
19	Brockliss Slough	11.14
20	Sam Spring Wash	11.12
21	Stillwater Slough	9.95
22	Bryant Creek	9.31
23	Silver Creek	9.19
24	Heyburn Ditch	8.86
25	Hot Springs Creek	8.24
26	Upper West Side Drain	7.77
27	Mountaineer Creek	7.71
28	Charity Valley Creek	7.26
29	Williams Slough	7.05
30	Fredericksburg Ditch	6.83
31	Ash Canyon Creek	6.73
32	Millberry Creek	6.65
33	Mineral Valley	6.64
34	Allerman Canal	6.52
35	Gold Creek	6.45
36	Poison Creek	6.16
37	Falke and Tillman Ditch	5.97
38	V Line Canal	5.92
39	Virginia Creek	5.74
40	Leviathan Creek	5.73
41	Noble Creek	5.72
42	Red Lake Creek	5.67
43	Vaughn Slough	5.58
44	East Canal	5.46
45	Coyote Valley Creek	5.42
46	Rocky Slough	5.35
47	L 12 Canal	5.32
48	Spratt Creek	5.17
49	Carson Lake Drain	5.11
50	Home Slough	5.06
51	S 5 Canal	5.04
52	Paiute Wash	4.98
53	South Branch Carson River	4.87
54	Monitor Creek	4.75

55	Barney Riley Creek	4.73
56	Lower Diagonal Number 1 Drain	4.66
57	Cottonwood Slough	4.66
58	Rock Dam Ditch Number 1	4.51
59	Hunter Drain	4.50
60	Millich Ditch	4.46
61	Raymond Canyon Creek	4.45
62	New River Drain	4.37
63	Houghman and Howard Ditch	4.30
64	Sheckler Drain	4.26
65	Kings Canyon Creek	4.25
66	Koch Ditch	4.25
67	Luther Creek	4.22
68	New River Slough	4.18
69	Stillwater Point Reservoir Diversion Canal	4.10
70	Henningson Slough	4.08
71	Mexican Ditch	4.02
72	Pennsylvania Creek	4.00
73	G Line Extension Drain	3.99
74	E Line Canal	3.96
75	Lower Old Virginia Canal	3.94
76	Diamond Valley Ditch	3.82
77	American Flat Wash	3.80
78	Musser and Jarvis Creek	3.78
79	Martin Slough	3.77
80	Edna Wilslef Ditch	3.66
81	Lower Soda Lake Drain	3.65
82	L 3 Drain	3.65
83	Silver Hill Creek	3.53
84	Sawmill Creek	3.46
85	Dixon Creek	3.42
86	Snowshoe Thompson Ditch Number Two	3.37
87	Buckland Ditch	3.35
88	Lower Diagonal Drain	3.34
89	Rock Dam Ditch	3.30
90	G Line Canal	3.26
91	Daggett Creek	3.26
92	Tamarack Creek	3.26
93	Forestdale Creek	3.19
94	Hawkins Creek	3.16
95	Paiute Diversion Drain	3.15
96	O Line Canal	3.14
97	West Canal	3.13
98	Harmon Number One Drain	3.08
99	Monument Creek	3.01
100	Humboldt Slough	3.01
101	R Line Canal	2.97
102	Johnson Slough	2.97
103	Corral Valley Creek	2.97
104	Paiute Drain	2.94
105	Gee Ditch	2.94
106	Harmon Drain	2.93
107	A Line Canal	2.90
108	Scott Creek	2.87
109	Big Ditch	2.85
110	Jeff Davis Creek	2.85

111	New River Extension Branch Drain	2.84
112	L2 Drain	2.73
113	Gummow Drain	2.67
114	South Fork Daggett Creek	2.63
115	West Carson Lake Drain	2.58
116	Markleeville Creek	2.57
117	Kinney Creek	2.57
118	Lead Lake Canal	2.54
119	R Drain	2.53
120	Park and Bull Slough	2.48
121	Hazen Drain	2.44
122	Upper New Virginia Canal	2.44
123	KX Lateral Canal	2.41
124	Otts Creek	2.39
125	Winsett Drain	2.37
126	Raymond Meadows Creek	2.32
127	Heenan Creek	2.28
128	Poor Boy Creek	2.27
129	T Line Canal	2.23
130	Buck Creek	2.20
131	Barber Creek	2.08
132	Goose Lake Bypass	2.03
133	Sheckler 1 Drain	2.03
134	Snodgrass Creek	1.99
135	Saint Louis Straight Ditch	1.99
136	South Upper Soda Lake Drain	1.94
137	UID Drain	1.93
138	D 3 Canal	1.92
139	Sheridan Creek	1.83
140	Kent Drain	1.81
141	Smith's Creek	1.80
142	S 5 A Drain	1.75
143	Carson Lake 1 Drain	1.75
144	Shay Creek	1.75
145	Upper Paiute Drain	1.74
146	Eagle Creek	1.74
147	Elder Creek	1.71
148	Swope Drain	1.67
149	Corsser Creek	1.66
150	Erb Drain	1.65
151	Maxwell Creek	1.57
152	Lead Bypass Canal	1.53
153	S-One Canal	1.53
154	L Drain	1.52
155	Vencill Drain	1.51
156	Upper Soda Lake 1 Drain	1.51
157	Ponte Drain	1.47
158	West Lee Drain	1.44
159	Carson Lake A1 Extension Drain	1.44
160	Mills Drain	1.42
161	Thoma Drain	1.39
162	Norton Drain	1.37
163	Randall Creek	1.35
164	S 7 Canal	1.31
165	N Line Canal	1.27
166	Kent Lake Drain	1.23
167	G 3 Canal	1.19
168	Baily Drain	1.19
169	Upper Soda Lake Drain	1.19
170	East Lee Drain	1.13
171	Randall Ditch	1.10
172	Shaffner Drain	1.00
173	Grimes Slough Extension	0.99

174	Upper Cardelli Ditch	0.97
175	Grimes Slough	0.85
176	Mussi Drain	0.84
177	G Line Drain	0.80
178	F 2 Drain	0.79
179	Rice Ditch	0.63
180	D Line Canal	0.54
181	Shaffner Branch	0.52
182	Heise Company Ditch	0.51
183	L D Drain	0.50
184	S 2 Canal	0.42
185	Pierson Slough	0.38
186	Branch One Drain	0.20
	Total Length	1,043.8

Appendix D Regulated Water Systems above Lahontan Reservoir

WS#	Water System Name	Type	County	Source
CA0202504	MARKLEEVILLE WATER CO.	C	ALPINE	SW
CA0202522	SIERRA PINES MOBILE HOME PARK	C	ALPINE	GW
CA0202503	WOODFORDS MUTUAL WATER COMPANY	C	ALPINE	GW
CA0202550	ALPINE CO. HEALTH & HUMAN SERVICES	NC	ALPINE	GW
CA0210300	CA STATE PARKS - GROVER HOT SPRINGS	NC	ALPINE	SW
CA0202515	CARSON RIVER RESORT	NC	ALPINE	GW
CA0202507	CHARITY VALLEY RANCH	NC	ALPINE	GW
CA0202532	CRYSTAL SPRINGS CG	NC	ALPINE	GW
CA0202529	HOPE VALLEY CG	NC	ALPINE	GW
CA0202520	HOPE VALLEY RESORT	NC	ALPINE	GW
CA0202543	INDIAN CREEK RES. CG (BLM)	NC	ALPINE	GW
CA0202513	SHAY CREEK SUMMER HOME TRACT	NC	ALPINE	GW
CA0202530	SILVER CREEK CG	NC	ALPINE	GW
CA0202516	SORENSEN S HOA	NC	ALPINE	GW
CA0202512	SORENSEN S RESORT	NC	ALPINE	GW
CA0202519	TURTLE ROCK COUNTY PARK	NC	ALPINE	GW
CA0202502	WOODFORDS STATION	NC	ALPINE	GW
CA0202501	DIAMOND VALLEY SCHOOL	NTNC	ALPINE	GW
CA0202599	EARLY LEARNING CENTER	NTNC	ALPINE	GW
NV0000015	CARSON CITY PUBLIC WORKS	C	CARSON CITY	SW
NV0000017	COTTONWOOD MHP	C	CARSON CITY	GW
NV0000028	TERRACE GARDEN APARTMENTS	C	CARSON CITY	GW
NV0002006	MILL HOUSE INN MOTEL	NC	CARSON CITY	GW
NV0004084	STEWART COMPLEX	NTNC	CARSON CITY	GW
NV0002216	DOUGLAS COUNTY - EAST VALLEY WATER SYSTEM	C	DOUGLAS	GWP
NV0002540	DOUGLAS COUNTY - FAIRGROUNDS/SUNRISE ESTATES	C	DOUGLAS	GW
NV0000959	DOUGLAS COUNTY - FOOTHILL WATER SYSTEM	C	DOUGLAS	GW
NV0002564	DOUGLAS COUNTY - MONTANA	C	DOUGLAS	GW
NV0000931	DOUGLAS COUNTY - SIERRA COUNTRY ESTATES	C	DOUGLAS	GW
NV0002054	DOUGLAS COUNTY - WEST VALLEY WATER SYSTEM	C	DOUGLAS	GW
NV0000066	GARDNERVILLE RANCHOS GID	C	DOUGLAS	GW
NV0000065	GARDNERVILLE WATER COMPANY	C	DOUGLAS	GW
NV0000355	INDIAN HILLS GID	C	DOUGLAS	GW
NV0000172	PINEVIEW ESTATES	C	DOUGLAS	GW
NV0000068	RIVERVIEW MOBILE HOME PARK	C	DOUGLAS	GW
NV0000030	SIERRA ESTATES GID	C	DOUGLAS	GW
NV0000168	TOWN OF MINDEN	C	DOUGLAS	GW
NV0002043	DOUGLAS COUNTY LAMPE PARK	NC	DOUGLAS	GW
NV0002218	EAST PEAK LODGE	NC	DOUGLAS	GW
NV0000844	SEVEN ELEVEN NO 23074	NC	DOUGLAS	GW
NV0005078	DOUGLAS COUNTY - CHINA SPRINGS YOUTH CAMP	NTNC	DOUGLAS	GW
NV0000977	DOUGLAS COUNTY - NORTH COUNTY WATER SYSTEM	NTNC	DOUGLAS	GW
NV0002227	THE CLUB AT CLEAR CREEK TAHOE	NTNC	DOUGLAS	GW
NV0000816	WILLIAMS RIDGE TECH PARK	NTNC	DOUGLAS	GW
NV0000032	DAYTON VALLEY WATER SYSTEM	C	LYON	GW
NV0000223	SILVER SPRINGS MUTUAL WATER COMPANY	C	LYON	GW

NV0000224	STAGECOACH GID	C	LYON	GW
NV0005020	CHURCHILL BUTTE COMPLEX	NC	LYON	GW
NV0000881	DAYTON TAP HOUSE LLC	NC	LYON	GW
NV0003098	EAST 50 BAR	NC	LYON	GW
NV0002132	FORT CHURCHILL HISTORIC STATE PARK	NC	LYON	GW
NV0000858	ROGELIO M GARCIA	NC	LYON	GW
NV0004100	SILVER SPRINGS MEETINGHOUSE LDS	NC	LYON	GW
NV0002608	STAGECOACH COUNTRY MARKET	NC	LYON	GW
NV0004040	STAGECOACH MARKET	NC	LYON	GW
NV0001195	ACG MATERIALS	NTNC	LYON	GW
NV0004053	HODGES TRANSPORTATION CO	NTNC	LYON	GW

Type: C = Community, NC = Non-Community, NTNC = Non-Transient Non-Community

Source: SW = Surface Water, GW = Groundwater

Source: (California States Water Resources Board, n.d.; Nevada Division of Environmental Protection, n.d.)

Appendix E River Segment Water Rights

River Segment 1

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	State Of California	23DCR	DEC	---		SW	NW	24	10N	19E	AL	1	49.20	---	DEC	Hot Spring Creek
105	State Of California	24DCR	DEC	---	1/1/1900	SE	SW	24	10N	20E	AL	1	5.70	---	DEC	Shay Creek
105	State Of California	25DCR	DEC	---		SE	SW	24	10N	19E	AL	1	52.20	---	DEC	Shay Creek
105	Alpine County	26DCR	DEC	---	1/1/1862	NE	NW	29	10N	20E	AL	1	47.50	---	DEC	Hot Spring Creek

River Segment 2

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Consolidated Municipality Of Carson City	51856	14949	250DCR	1/1/1894	NE	SW	24	13N	19E	DO	2	---	240 afa	QM	Carson River
105	Gardnerville-City	77512	PER	multiple claims	1/1/1876	SW	NE	4	12N	20E	DO	2	---	19.9 afa	STO	Carson River-East Fork-Cottonwood Slough Ditches
105	Gardnerville-City	77513	PER	multiple claims	1/1/1878	SW	NE	4	12N	20E	DO	2	---	10 afa	STO	East Fork Carson River
105	Douglas County	102DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.91	---	DEC	East Fork Carson River
105	Douglas County	103DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	5.91	---	DEC	East Fork Carson River
105	Minden-Town	123DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	4.30	---	DEC	East Fork Carson River
105	Minden-Town	124DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	1.50	---	DEC	East Fork Carson River
105	Douglas County	127DCR	DEC	---	1/1/1895	SE	SE	23	12N	20E	DO	2	0.72	---	DEC	East Fork Carson River
105	** Gardnerville Ranchos G.I.D.	139ADCR	DEC	---	1/1/1865	SW	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	Gardnerville-City	160DCR	DEC	---	1/1/1876	NW	SE	10	12N	20E	DO	2	10.00	---	DEC	East Fork Carson River
105	Gardnerville-City	161ADCR	DEC	---	1/1/1869	NW	SE	10	12N	20E	DO	2	0.63	---	DEC	East Fork Carson River
105	Gardnerville-City	161DCR	DEC	---	1/1/1869	NW	SE	10	12N	20E	DO	2	0.98	---	DEC	East Fork Carson River
105	Douglas County Grammer School	170aDCR	DEC	---	1/1/1864	NW	SE	10	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	Consolidate Municipality of Carson City	249DCR	DEC	---	1/1/1882	NE	SW	24	13N	19E	DO	2	39.00	---	DEC	East Fork Carson River
105	Carson Water Subconservancy	254DCR	DEC	---	1/1/1900	NW	SE	10	12N	20E	DO	2	6.35	---	DEC	East Fork Carson River
105	Douglas County	254DCR	DEC	---	1/1/1900	NW	SE	10	12N	20E	DO	2	1.92	---	DEC	East Fork Carson River
105	The Town of Minden	254DCR	DEC	---	1/1/1900	NW	SE	10	12N	20E	DO	2	0.30	---	DEC	East Fork Carson River
105	Carson Water Subconservancy	277DCR	DEC	---	1/1/1895	NE	SE	9	12N	20E	DO	2	11.59	---	DEC	East Fork Carson River
105	Douglas County	277DCR	DEC	---	1/1/1895	NE	SE	9	12N	20E	DO	2	0.68	---	DEC	East Fork Carson River
105	Douglas County	279DCR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	3.43	---	DEC	East Fork Carson River
105	Carson Water Subconservancy	279DCR	DEC	---	1/1/1901	NE	SE	9	12N	20E	DO	2	2.06	---	DEC	East Fork Carson River
105	Town of Minden	324DCR	DEC	---	1/1/1864	SE	SE	4	12N	20E	DO	2	0.09	---	DEC	East Fork Carson River

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Town of Minden	330DCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	0.22	---	DEC	East Fork Carson River
105	** Town of Minden	330DCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	Gardnerville-City	330fDCR	DEC	---	1/1/1871	SW	NE	4	12N	20E	DO	2	2.50	---	DEC	East Fork Carson River
105	Douglas County School District	334DCR	DEC	---	1/1/1864		NW	4	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	Douglas County	335cDCR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	0.22	---	DEC	East Fork Carson River
105	Town of Minden	340DCR	DEC	---	1/1/1878	NE	SW	14	12N	20E	DO	2	0.24	---	DEC	East Fork Carson River
105	Gardnerville Town Water Company, Inc	344DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.15	---	DEC	East Fork Carson River
105	Gardnerville-City	344IDCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.18	---	DEC	East Fork Carson River
105	Gardnerville - City	351DDCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	0.16	---	DEC	East Fork Carson River
105	** East Fork Swimming Pool	358DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	** East Fork Swimming Pool	359DCR	DEC	---	1/1/1879	NE	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	Douglas County	367bDCR	DEC	---	1/1/1878	NE	SW	14	12N	20E	DO	2	0.26	---	DEC	East Fork Carson River
105	Gardnerville-City	373DCR	DEC	---	1/1/1878	NE	SW	14	12N	20E	DO	2	0.67	---	DEC	East Fork Carson River
105	Douglas County	377DCR	DEC	---	1/1/1874	NE	SW	14	12N	20E	DO	2	2.00	---	DEC	East Fork Carson River
105	Douglas County	378DCR	DEC	---	1/1/1869	NE	SW	14	12N	20E	DO	2	3.65	---	DEC	East Fork Carson River
105	** Douglas County School District	379DCR	DEC	---	1/1/1874	NE	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	Douglas County High School; Mauk, R.E.; Scarcelli, G.	384DCR	DEC	---	1/1/1877	NE	SW	14	12N	20E	DO	2	<1	---	DEC	East Fork Carson River
105	Minden-Town	389DCR	DEC	---	1/1/1881	NE	SW	14	12N	20E	DO	2	1.70	---	DEC	East Fork Carson River
105	** Douglas County Library	389DCR	DEC	---	1/1/1881	NE	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	** Douglas County School District	389DCR	DEC	---	1/1/1881	NE	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	** Minden-Town	389DCR	DEC	---	1/1/1881	NE	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	** Minden-Town	390DCR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	Minden-Town	390DCR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	2.09	---	DEC	East Fork Carson River
105	** Douglas County Library	390DCR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	** Douglas County School District	390DCR	DEC	---	1/1/1897	NE	SW	14	12N	20E	DO	2	** Undivided Ownership	---	DEC	East Fork Carson River
105	Douglas County	394DCR	DEC	---	1/1/1881	NE	SW	14	12N	20E	DO	2	13.69	---	DEC	East Fork Carson River
105	Minden-Town	395DCR	DEC	---	1/1/1882	NE	SW	14	12N	20E	DO	2	4.49	---	DEC	East Fork Carson River
105	The Town of Minden	396DCR	DEC	---	1/1/1885	NE	SW	14	12N	20E	DO	2	0.37	---	DEC	East Fork Carson River
105	Minden-Town	396DCR	DEC	---	1/1/1885	NE	SW	14	12N	20E	DO	2	0.25	---	DEC	East Fork Carson River

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Minden-Town	403DCR	DEC	---	1/1/1873	NE	SW	14	12N	20E	DO	2	9.67	---	DEC	East Fork Carson River
105	Minden-Town	404DCR	DEC	---	1/1/1885	NE	SW	14	12N	20E	DO	2	7.40	---	DEC	East Fork Carson River
105	Minden-Town	406DCR	DEC	---	1/1/1885	NE	SW	14	12N	20E	DO	2	1.99	---	DEC	East Fork Carson River
105	Douglas County	413DCR	DEC	---	1/1/1877	NW	NE	32	13N	20E	DO	2	7.15	---	DEC	East Fork Carson River
105	Douglas County	414DCR	DEC	---	1/1/1881	NW	NE	32	13N	20E	DO	2	7.00	---	DEC	East Fork Carson River
105	Town of Minden	421DCR	DEC	---	1/1/1876	NW	NW	4	12N	20E	DO	2	9.22	---	DEC	East Fork Carson River
105	Gardnerville Town Water Company, Inc.	421DCR	DEC	---	1/1/1876	NW	NW	4	12N	20E	DO	2	0.23	---	DEC	East Fork Carson River
105	Minden-Town	58DDCR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	0.03	---	DEC	East Fork Carson River
105	Town of Minden	58EDCR	DEC	---	1/1/1916	NW	SW	25	12N	20E	DO	2	0.13	---	DEC	East Fork Carson River
105	Minden-Town	83DCR	DEC	---	1/1/1877	SE	SE	23	12N	20E	DO	2	26.27	---	DEC	East Fork Carson River
105	Minden-Town	93DCR	DEC	---	1/1/1877	SE	SE	23	12N	20E	DO	2	103.00	---	DEC	East Fork Carson River
105	Minden-Town	94DCR	DEC	---	1/1/1862	SE	SE	23	12N	20E	DO	2	24.92	---	DEC	East Fork Carson River
105	Minden-Town	96DCR	DEC	---	1/1/1866	SE	SE	23	12N	20E	DO	2	19.61	---	DEC	East Fork Carson River

River Segment 3

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
105	Carson Water Subconservancy	812DCR	DEC	---	1/1/1924						AL	3	92.00	---	IRR	Upper Or East Lost Lake
105	Carson Water Subconservancy	813DCR	DEC	---	1/1/1924						AL	3	127.00	---	IRR	Lower Or West Lost Lake

River Segment 4

No Water Rights Public Water Rights Identified

River Segment 5

No Water Rights Public Water Rights Identified

River Segment 6

No Water Rights Public Water Rights Identified

River Segment 7

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
103	Lyon County	45466	PER	27191, 718DCR	1/1/1875	NE	NE	4	15N	21E	LY	7	5.90	---	IRR	Carson River
103	Consolidated Municipality of Carson City	51898	13811	704DCR	1/1/1849	SE	SW	14	15N	20E	CC	7	---	267 afa	MUN	CC Well 41B, Induction Well Redrill
103	Consolidated Municipality of Carson City	51899	13812	704DCR	1/1/1849	NE	SW	14	15N	20E	CC	7	---	133 afa	MUN	CC Well 25B, Induction Well

Basin	Owner of Record	App	Cert Status	Change Of App	Priority Date	POD Qtr-Qtr	POD Qtr	POD Sec	POD Township	POD Rng	POD County	POD River Segment	Acres	AFA	Use	Source Description
103	Consolidated Municipality of Carson City	51900	13813	705DCR	1/1/1849	SE	SW	14	15N	20E	CC	7	---	127.83 afa	MUN	CC Well 41B, Induction Well Redrill
103	Consolidated Municipality of Carson City	51901	13814	705DCR	1/1/1849	NE	SW	14	15N	20E	CC	7	---	63.92 afa	MUN	CC Well 25B, Induction Well
103	Consolidated Municipality of Carson City	51902	13815	51643, 43415, 704DCR	1/1/1849	SE	SW	14	15N	20E	CC	7	---	27 afa	MUN	CC Well 41B, Induction Well Redrill
103	Consolidated Municipality of Carson City	51903	13816	51643, 43415, 704DCR	1/1/1849	NE	SW	14	15N	20E	CC	7	---	13.5 afa	MUN	CC Well 25B, Induction Well
103	Dayton Valley GC & Lyon County	53289	PER	723DCR	1/1/1877	NW	NW	34	16N	21E	LY	7	198.52	---	IRR	Carson River
103	Dayton Valley GC and Lyon County	53291	PER	725DCR	1/1/1905	NW	NW	34	16N	21E	LY	7	198.52	---	IRR	Carson River
103	Dayton Valley GC & Lyon County	55417	PER	724DCR	1/1/1886	NW	NW	34	16N	21E	LY	7	5.80	---	IRR	Carson River
103	Consolidated Municipality Of Carson	62775	PER	686DCR	4/1/1865	NE	SW	14	15N	20E	CC	7	---	367.23 afa	MUN	Cc Well 25B, Induction Well
103	Dayton Valley GC & Lyon County	64788	PER	53290, 724DCR	1/1/1877	SE	NE	23	16N	21E	LY	7	34.08	---	DEC	Carson River
103	Lyon County	70656	PER	68647, 757DCR	1/1/1877	NW	SW	4	16N	22E	LY	7	---	233.5 afa	MUN	Dayton Well #20
103	Lyon County	70657	PER	68646, 754DCR	3/22/2002	NW	SW	4	16N	22E	LY	7	---	199.35 afa	MUN	Dayton Well #20
103	Lyon County	70658	PER	68193, 15222, 745DCR, 747DCR, 746DCR	11/13/2001	NW	SW	4	16N	22E	LY	7	---	418.7 afa	MUN	Dayton Well #20
103	Lyon County	70659	PER	63625, 754DCR	11/21/2003	NW	SW	4	16N	22E	LY	7	---	71.15 afa	MUN	Dayton Well #20
103	Lyon County	70660	PER	63624, 753DCR	11/21/2003	NW	SW	4	16N	22E	LY	7	---	126 afa	MUN	Dayton Well #20
103	Lyon County	70661	PER	63623, 751DCR	11/21/2003	NW	SW	4	16N	22E	LY	7	---	106.75 afa	MUN	Dayton Well #20
103	Lyon County	70689	PER	723DCR	12/16/2003	NW	SW	4	16N	22E	LY	7	103.62	---	MUN	Dayton Well #20
103	Lyon County	81150	21076	715DCR	1/1/1872	SE	SW	14	15N	20E	CC	7	---	362 afa	DEC	Cc Well 41B, Induction Well Redrill
103	Lyon County	83491	PER	701DCR	1/1/1897	NW	SW	4	16N	22E	LY	7	---	105.2 afa	MUN	Dayton Well #20
102	State Of Nevada	50317A01	17669	788DCR	10/28/1986	NW	SE	32	17N	24E	LY	7	473.35	---	DEC	Carson River
103	Dayton Valley GC & Lyon County	723DCR	DEC	---	1/1/1877	NW	NW	34	16N	21E	LY	7	152.11	---	DEC	Carson River
102	Nevada-Parks Division	781DCR	DEC	---	1/1/1863	NW	SE	32	17N	24E	LY	7	66.00	---	DEC	Carson River
102	Nevada-Parks Division	782DCR	DEC	---	1/1/1874	NW	SE	32	17N	24E	LY	7	81.00	---	DEC	Carson River
102	State of Nevada	784DCR	DEC	---	1/1/1863	SE	SW	35	17N	24E	LY	7	229.00	---	DEC	Carson River
102	Nevada-Parks Division	789DCR	DEC	---	1/1/1861	NE	NE	6	16N	25E	LY	7	47.00	---	DEC	Carson River
102	Nevada-Parks Division	790DCR	DEC	---	1/1/1864	NE	NE	6	16N	25E	LY	7	94.00	---	DEC	Carson River