

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

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TRUCKEE CANYON
HYDROGRAPHIC BASIN 6-091
GROUNDWATER PUMPAGE INVENTORY
WATER YEAR 2021

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ABSTRACT

This inventory represents the status and usage of all permitted, certificated, claims of vested right groundwater rights, and exempt domestic wells located within the Truckee Canyon, Hydrographic Basin 6-091, for water year 2021 (October 1, 2020 through September 30, 2021). Also included are tables, graphs, and data associated with this use.

The data presented are valid for the period of this report and may vary from previously published figures as water rights within the basin are subject to administrative action, such as certification, cancellation, forfeiture, or withdrawal on a continual basis.

For water year 2021, the committed groundwater resource totaled 4,002 acre-feet, with estimated pumpage of approximately **1,272 acre-feet**. This figure includes an estimated 480 acre-feet pumped from exempt domestic wells.

Pumping by exempt domestic was the largest manner of use within the basin, estimated at 480 acre-feet in water year 2021. The second largest manner of use was quasi-municipal, with pumpage totaling 453 acre-feet and appropriations totaling 2,068 acre-feet.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	091, REGION 6	
HYDROGRAPHIC BASIN NAME	TRUCKEE CANYON	
COUNTIES	WASHOE COUNTY	
MAJOR COMMUNITIES	RENO, VERDI	
DESIGNATED	YES	
DENIALS BASED UPON WATER AVAILABILITY	MUNICIPAL, QUASI-MUNICIPAL, IRRIGATION, COMMERCIAL	
GROUNDWATER LEVEL MEASUREMENTS	NDWR, WASHOE COUNTY, USGS	
PUMPAGE INVENTORY, ACRE-FEET IN 2021	1,272 ¹	
STATE ENGINEER'S ORDERS		
706 – DESIGNATION	DATE: MARCH 1, 1978	
1213 – PREFERRED USE	DATE: JANUARY 28, 2011	
COMMITTED GROUNDWATER RESOURCE ^{2,3} : 4,002 ACRE-FEET	DATE: OCTOBER 2021	
COMMERCIAL47	DOMESTIC 960	INDUSTRIAL.....0.25
IRRIGATION69	MUNICIPAL 729	OTHER1
QUASI-MUNICIPAL2,068	RECREATION 3	STOCKWATER 124

¹ Includes pumpage by exempt domestic wells, as defined by NRS 534.013.

² Committed groundwater resource data are accurate for October 2021. Manner of use category totals vary over time, as rights are not static. Rights may be subject to change applications, certification, withdrawals, forfeiture and cancellations; each of these circumstances could affect the duty, diversion rate and acreage associated with a given right. The value associated with each manner of use category does not include the amount relinquished in support of domestic wells. A query of the NDWR Well Log Database indicates that 480 domestic wells existed in the basin during water year 2021. This query is assumed to represent both appropriations and exempt domestic wells. The committed domestic water resource is considered to be 2 acre-feet per domestic well, or 960 acre-feet annually.

³ Due to rounding, numbers presented in tables within this report may not add up precisely to the totals provided.

PURPOSE AND SCOPE

The purpose of this report is to inventory all of the groundwater resources allocated and described by the Office of the State Engineer, Nevada Division of Water Resources (NDWR). The estimated amount of groundwater pumped under permits, certificates, vested claims, and exempt domestic wells within the Nevada portion of the Truckee Canyon, Hydrographic Basin 6-091, for water year 2021 (October 1, 2020 through September 30, 2021) is described in the following sections.

DESCRIPTION OF THE STUDY AREA

The Truckee Canyon Hydrographic Basin is located in western Nevada, with portions extending over the state line into California. Within Nevada, the basin occupies approximately 84 square miles primarily in Washoe County, with its boundary described by Designation Order 706, issued by the State Engineer on March 1, 1978. The basin is bounded on the west by the California state line, to the east by the Carson Range of the Sierra Nevada, and to the northeast by Peavine Mountain. The surrounding hydrographic basins are Long Valley (7-100A) to the north, Lemmon Valley Western Region (7-092A) and Lemmon Valley Eastern Region (7-092B) to the northeast, Truckee Meadows (6-087) to the east, Pleasant Valley (6-088) and a small part of Washoe Valley (6-089) to the southeast, and Lake Tahoe (6-090) to the immediate south (Figure 1).

The dominant hydrologic feature of the Truckee Canyon basin is the Truckee River. Major tributaries to the Truckee River are Little Truckee River, Dog Creek, and Gray Creek. Several water conveyance ditches, including the Steamboat Canal irrigation ditch, originate in the Truckee Canyon segment of the Truckee River.

Streamflow in the Truckee River and its tributaries are measured by the United States Geological Survey (USGS) and various local government entities operating under the Truckee River Operating Agreement (TROA), as managed by the Federal Water Master. Streamflow data can be accessed at <http://nevada.usgs.gov/> and <http://www.troa.net/tis>, respectively.

GROUNDWATER LEVELS

Depths to groundwater in Truckee Canyon are measured by NDWR, and also reported by other entities. Data for active monitoring well sites (Figure 2) can be found on NDWR's website at <http://water.nv.gov/WaterLevelData.aspx>, or via the Nevada Hydrology Data Mapping Application, accessible at <http://water.nv.gov/mapping.aspx>. Groundwater level data are also collected by the U.S. Geological Survey (USGS) at various locations across the state and may be accessed through their website at <https://waterdata.usgs.gov/nv/nwis/gw>.

METHODS TO ESTIMATE PUMPAGE

One of the purposes of this report is to estimate the amount of groundwater pumped under vested claims, permits and certificates issued by the State Engineer, as well as the amount pumped by exempt domestic wells in the valley. Table 1 and Figure 3 show historical pumpage by manner of use; Figure 4 shows the percentage of water pumped by manner of use; and Figure 5 compares groundwater commitments and estimated pumpage by manner of use. The following methods were used to arrive at the estimated use:

- Where totalizing meters were in place, meter readings were taken and compared with previous data (if available).
- Where meters were not in place and the use was irrigation, pumpage was estimated by multiplying the number of hours the well was operated during the past year (determined from an hour meter reading or asking the water user) by the certificated diversion rate.
- Where there were no flow meters or other reliable options for estimating pumpage and the use was irrigation, pumpage was estimated by dividing the Net Irrigation Water Requirement (NIWR) for the crop grown by the efficiency of the irrigation method used, then multiplying by the number of acres irrigated. Irrigation efficiencies associated with three types of irrigation methods are pivot at 85%, wheel line or other hand moved sprinklers at 75%, and flood at 60%. The pumpage amount estimated by this method was limited by the duty of the permit. For places where the groundwater rights were supplemental to surface water, groundwater use was estimated using the NIWR method above, but adjusted based on available surface water for the year. Evapotranspiration and NIWR data by basin can be found on the NDWR website at: <http://water.nv.gov/Evapotranspiration.aspx>.
- Where meters were not present, previous data were not available, and the manner of use was not irrigation, pumpage was estimated by applying the annual duty associated with the certificate (if the water right was perfected), permit or claim, if the use was as described in the certificate, permit or claim. If the use was not as described in the certificate, permit or claim, a value was estimated based upon the circumstances of use for the subject year.
- Exempt domestic wells may be drilled and utilized where water service from a purveyor is not available. These types of wells do not require a permit from the State Engineer if they do not pump more than 2 acre-feet per year as provided by Nevada Revised Statutes (NRS) [534.180](#). [NRS 534.013](#) defines this category of domestic use as follows: *“Domestic use or domestic purposes extends to culinary and household purposes directly related to a single family dwelling, including, without limitation, the watering of a family garden and lawn and the watering of livestock and any other domestic animals or household pets.”* The number of exempt domestic wells in the basin was determined by a query of the NDWR Well Log Database to be 480. The amount of water pumped by exempt domestic wells is estimated to be 1 acre-foot per well in the Truckee Canyon, or 480 acre-feet.

TABLES

Table 1. Truckee Canyon historical pumpage (acre-feet) by water year.

YEAR	COM	DOM	IND	IRR	MUN	OTH	QM	REC	STK	TOTAL
2018	121	465	0.25	28	292	20	453	3	4	1,386
2019	121	469	0.25	28	292	21	373	3	4	1,311
2020	68	474	0.25	51	160	17	357	3	5	1,136
2021	34	480	0	55	238	5	453	3	4	1,272

FIGURES

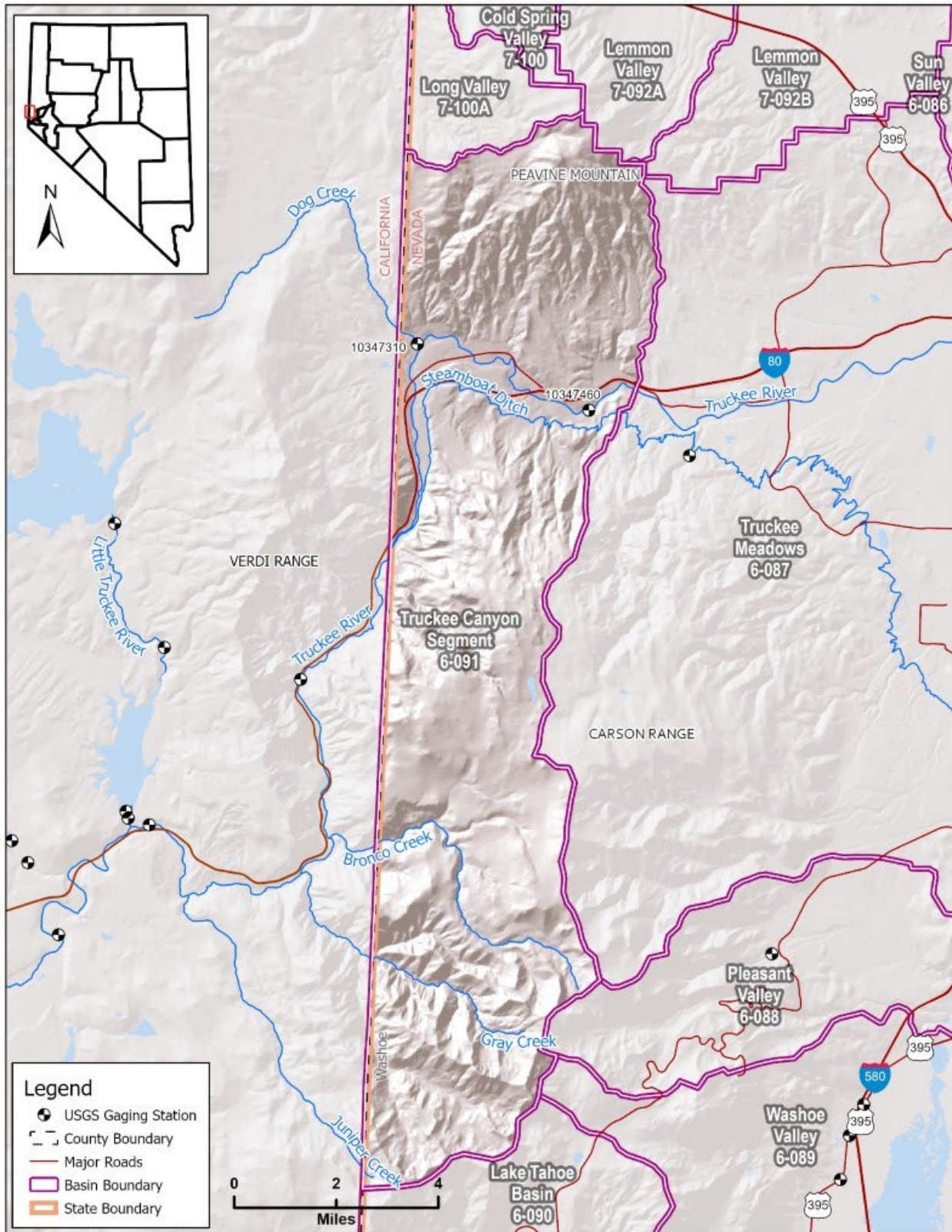


Figure 1. Physiographic map of Truckee Canyon (Hydrographic Basin 6-091).

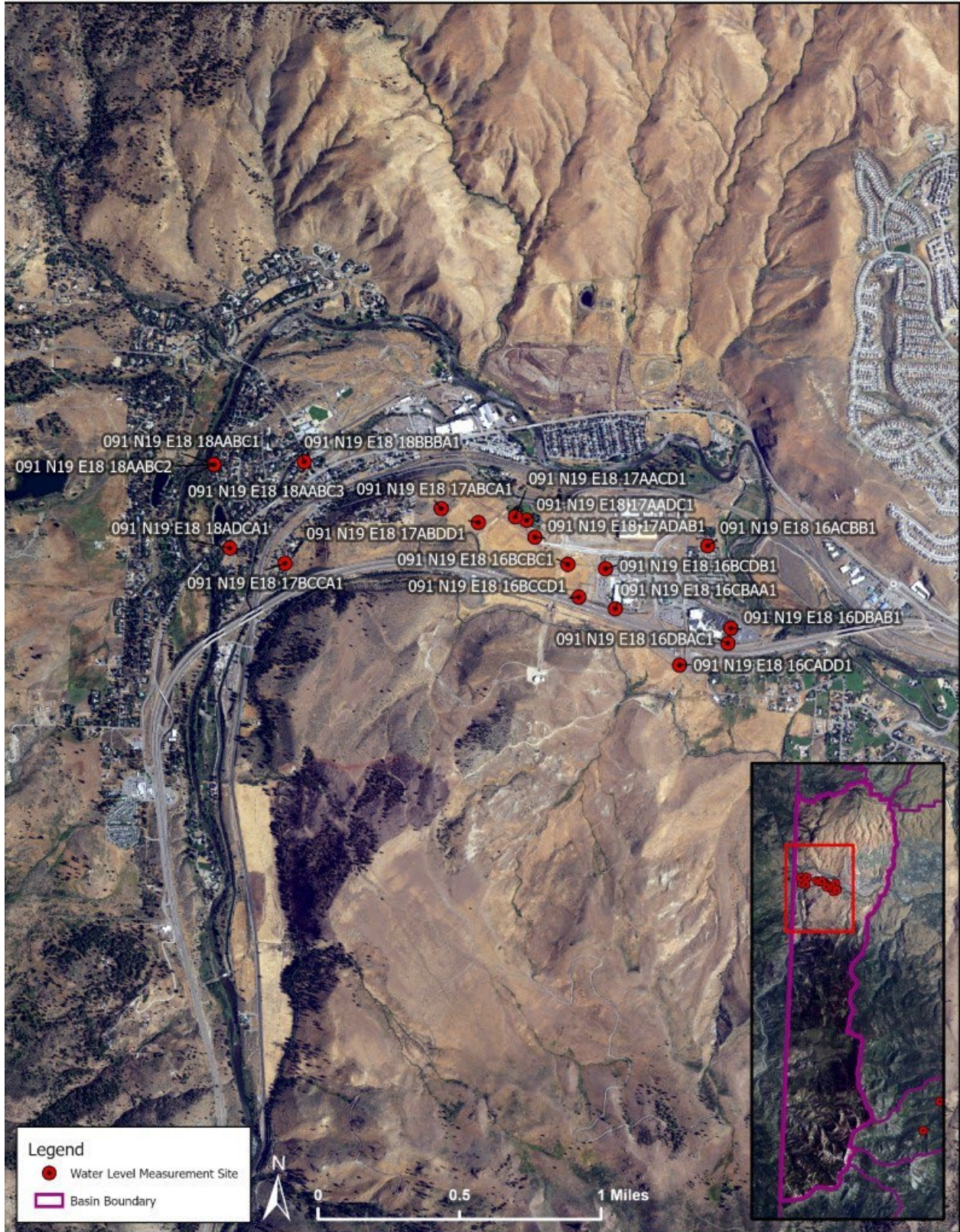


Figure 2. Truckee Canyon groundwater level measurement sites.

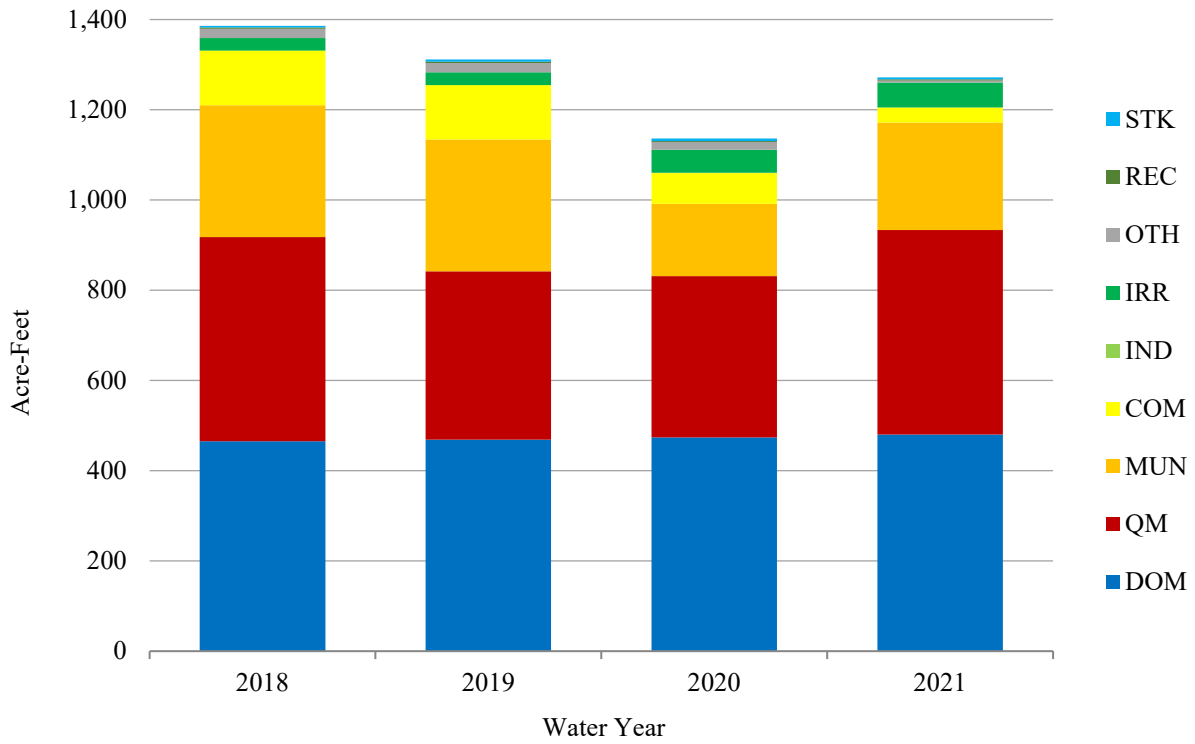


Figure 3. Truckee Canyon historical pumpage by manner of use.

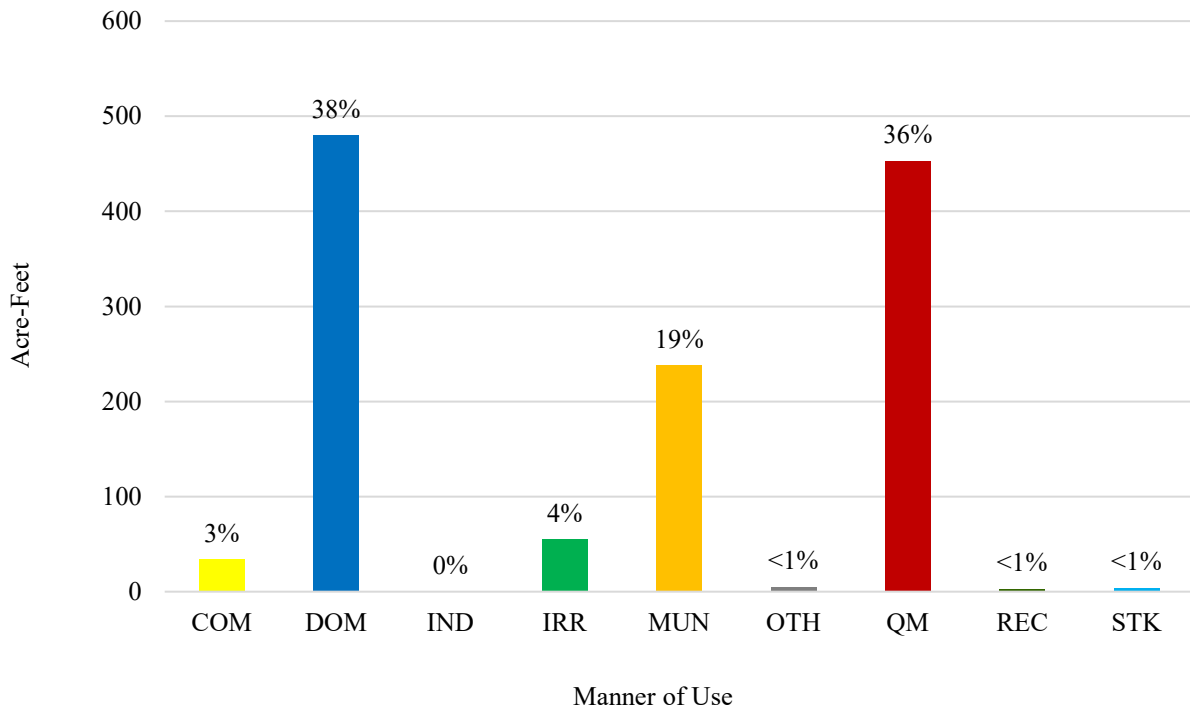


Figure 4. Percentage of 2021 groundwater pumpage by manner of use.

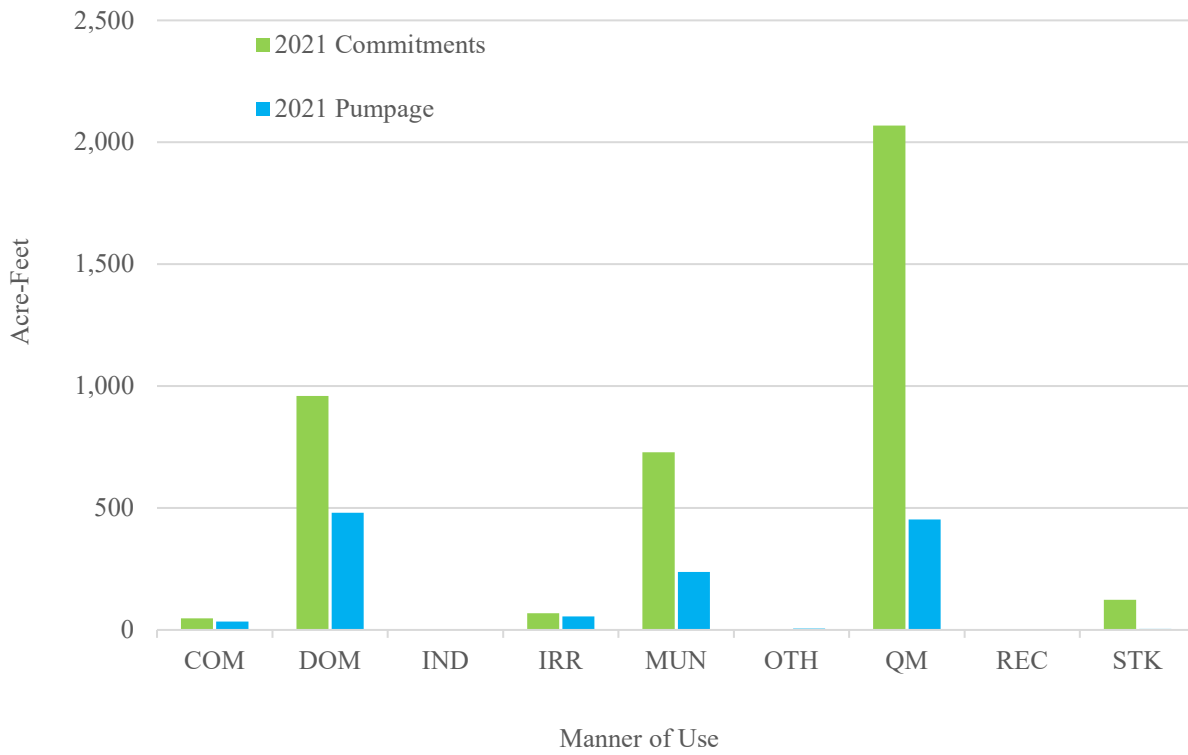


Figure 5. Comparison between 2021 groundwater commitments and estimated pumpage.

**APPENDIX A. TRUCKEE CANYON 2021 GROUNDWATER PUMPAGE BY
APPLICATION NUMBER**

EXPLANATION OF COLUMN HEADINGS FOR GROUNDWATER PUMPAGE BY APPLICATION NUMBER

APP NO.	The file number of the Application to Appropriate/Change Water or the Claim of Vested Right.
SITE NAME	An ID assigned to each well based on its geographic location.
STATUS	Indicates if the application is a permit (PER), claim of vested right (VST), or if it has been certificated. For certificated applications, the certificate number will be listed in the column.
MOU	The manner of use of the appropriated water. MOU's may include: COM - Commercial CON - Construction DOM - Domestic ENV - Environmental IND - Industrial IRR - Irrigation MM - Mining & Milling MUN - Municipal OTH - Other PWR - Power QM - Quasi-Municipal REC - Recreation STK - Stockwater STO - Storage WLD - Wildlife
OWNER OF RECORD	The owner of the water right as recorded in the files of the State Engineer. A water right may have more than one owner of record.
QQ	The quarter quarter of the Section in which the point of diversion is located.
Qtr	The quarter of the Section in which the point of diversion is located.
Sec	The Section in which the point of diversion is located.
T	The Township in which the point of diversion is located.
R	The Range in which the point of diversion is located.
PER. ACRES	The number of acres that are permitted to be irrigated.
DUTY (AF)	The number of acre-feet of water that the permittee may pump annually. One acre-foot equals 325,851 gallons.
SUPP ADJ	The total combined duty of a supplemental group. Where more than one permit is appurtenant to the same place of use, the permits are considered supplemental. Permits may be either completely or partially supplemental.
DUTY USED	The amount of water used during the water year, in acre-feet, as determined by review of records and/or field investigation. A “-“ in this field indicates that pumpage was attributed to a senior supplemental permit or certificated water right.
UNIT	Acre-feet annually (AFA) and acre-feet seasonally (AFS). AFS limits water usage to certain months of the year.
SUPP SRC	When more than one source is appurtenant to the same place of use, the sources are considered supplemental. A “Y” in this column signifies the groundwater right is supplemental to other groundwater rights.
SUPP GW APP NO.	The file number(s) of any supplemental groundwater appropriations.

- METHOD The method used to estimate pumpage, or duty used.
- D – Duty.
 - E – Estimated use based on field investigation observations.
 - M – Meter reading on a totalizing meter.
 - N – Acreage multiplied by the Net Irrigation Water Requirement (NIWR) for the crop grown in the basin divided by the efficiency of the irrigation method.
 - P – Water from the point of diversion not delivered to the place of use.
 - R – Reported pumpage.
 - X – Works of diversion are unequipped or non-functioning.
 - Z – Works of diversion not yet constructed.

**091 TRUCKEE CANYON
WATER YEAR 2021 GROUNDWATER PUMPAGE BY APPLICATION NUMBER**

APP NO.	SITE NAME	STATUS	MOU	OWNER OF RECORD	QQ	QTR	SEC	T	R	PER. ACRES	DUTY (AF)	SUPP ADJ	DUTY USED	UNIT	SUPP SRC	SUPP GW APP NO.	METHOD
20302	091 N19 E18 08CCCA1	5752	OTH	WASHOE COUNTY SCHOOL DISTRICT	SW	SW	8	19N	18E		19.58		3.85	AFA	Y	Footnote 1	E
21764	091 N19 E18 15DCBC1	5972	STK	MINTAGE INVESTMENT, INC.	SW	SE	15	19N	18E		4.48	4.48	4.48	AFA			D
22524	091 N19 E18 19ABAD1	6014	IRR	OBEC HOLDINGS LLC	NW	NE	19	19N	18E		5.64	5.64	2.82	AFA	Y	Footnote 2	E
22525	091 N19 E18 19ABAD2	6013	IRR	OBEC HOLDINGS LLC	NW	NE	19	19N	18E		5.64		2.82	AFA	Y	Footnote 2	E
27186	091 N19 E18 08DCDC1	8967	COM	HARKER & HARKER	SW	SE	8	19N	18E		25.53	25.53	25.53	AFA			D
33050	091 N19 E18 15CBCC1	10548	IRR	BELLI, JEANETTE	NW	SW	15	19N	18E	12.59	55.33	55.33	49.37	AFA			N
34591	091 N19 E18 18AAAD1	14777	QM	WASHOE COUNTY	NE	NE	18	19N	18E		2.24	114.04	2.24	AFA	Y	Footnote 5	D
36512	091 N19 E18 16CADD1	11131	QM	BT SOUTH, LLC (1.39 AFA), SJP RENO PROPERTY, LLC (0.709 AFA)	NE	SW	16	19N	18E		2.10	886.86	2.10	AFA	Y	Footnote 3	D
36837	091 N19 E18 19ABBD1	PER	QM	RENO SPARKS INDIAN COLONY	NW	NW	19	19N	18E		10.10	10.10	0.13	AFA	Y	Footnote 6	R
36991	091 N19 E18 19ABBB1	PER	QM	RENO SPARKS INDIAN COLONY	NW	NW	19	19N	18E		10.10		0.12	AFA	Y	Footnote 6	R
43293	091 N19 E18 09DCBC1	14652	QM	SUREBREC HOLDINGS, LLC, A NEVADA LIMITED LIABILITY COMPANY	SW	SE	9	19N	18E		4.94	4.94	4.94	AFA			D
44110	091 N19 E18 17BABB1	11061	COM	BELL TELEPHONE COMPANY OF NEVADA	NE	NW	17	19N	18E		0.03	0.03	0.03	AFA			D
44593	091 N19 E18 16CBAA1	12461	QM	BT SOUTH, LLC (64.632 AFA), SJP RENO PROPERTY LLC (35.058 AFA)	NW	SW	16	19N	18E		99.68		0.00	AFA	Y	Footnote 3	R
44594	091 N19 E18 16BCDB1	12462	QM	BT SOUTH, LLC (20.991 AFA), SJP RENO PROPERTY LLC (10.709 AFA)	SW	NW	16	19N	18E		31.70		24.02	AFA	Y	Footnote 3	R
44595	091 N19 E18 16BCBC1	PER	QM	BATES STRINGER-RENO, LLC (41.68 AFA), BT SOUTH, LLC (300.73 AFA), DP CLARK GARSON ROAD, LLC (31.10 AFA), QUILICI INVESTMENTS (100 AFA), RENO LAND DEVELOPMENT COMPANY, LLC (8.88), SJP RENO PROPERTY (159.12 AFA), TMWA (2.15 AFA)	SW	NW	16	19N	18E		886.86		0.00	AFA	Y	Footnote 3	R
44596	091 N19 E18 17ABDD1	PER	QM	BATES STRINGER-RENO, LLC (41.68 AFA), BT SOUTH, LLC (300.73 AFA), DP CLARK GARSON ROAD, LLC (31.10 AFA), QUILICI INVESTMENTS (100 AFA), RENO LAND DEVELOPMENT COMPANY, LLC (8.88), SJP RENO PROPERTY (159.12 AFA), TMWA (2.15 AFA)	NW	NE	17	19N	18E		886.86		112.84	AFA	Y	Footnote 3	R
45176	091 N19 E18 22BAAA1	12056	QM	MINTAGE INVESTMENT, INC.	NE	NW	22	19N	18E		2.24	2.24	2.24	AFA			D
45241	091 N19 E18 09CCBB1	PER	QM	FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH	SW	SW	9	19N	18E		2.00	80.00	0.00	AFA	Y	Footnote 4	R
45419	091 N19 E18 17BABA1	12222	QM	BEYERS, SHARRON LEE	NE	NW	17	19N	18E		2.24	2.24	2.24	AFA			D
46850	091 N19 E18 19DBDC1	14189	COM	GOLDBEAVER, LLC	NW	SE	19	19N	18E		1.37	1.37	1.37	AFA			D
46998	091 N19 E18 07DDCD1	15247	QM	WASHOE COUNTY	SE	SE	7	19N	18E		3.36		3.36	AFA	Y	Footnote 5	D
47000	091 N19 E18 17BBCB1	14570	QM	WASHOE COUNTY	NW	NW	17	19N	18E		3.36		3.36	AFA	Y	Footnote 5	D
47171	091 N19 E18 07DDDD1	15210	QM	WASHOE COUNTY	SE	SE	7	19N	18E		1.12		1.12	AFA	Y	Footnote 5	D
47351	091 N19 E18 07DDAA1	14683	QM	WASHOE COUNTY	SE	SE	7	19N	18E		2.24		2.24	AFA	Y	Footnote 5	D
47611	091 N19 E18 07DDDC1	14684	QM	WASHOE COUNTY	SE	SE	7	19N	18E		3.36		3.36	AFA	Y	Footnote 5	D
47683	091 N19 E18 18AADC1	14571	QM	WASHOE COUNTY	NE	NE	18	19N	18E		2.24		2.24	AFA	Y	Footnote 5	D
47787	091 N19 E18 18AABD1	14685	QM	WASHOE COUNTY	NE	NE	18	19N	18E		2.24		2.24	AFA	Y	Footnote 5	D
49067	091 N19 E18 07DACA1	PER	QM	ALAN GLEN	NE	SE	7	19N	18E		75.96		75.96	AFA	Y	Footnote 5	D
49068	091 N19 E18 18AADD1	14572	QM	WASHOE COUNTY	NE	NE	18	19N	18E		2.24		2.24	AFA	Y	Footnote 5	D
49069	091 N19 E18 18ADAB1	14573	QM	WASHOE COUNTY	SE	NE	18	19N	18E		2.24		2.24	AFA	Y	Footnote 5	D
49301	091 N19 E18 14CABD1	13042	COM	MOGUL ENTERPRISES	NE	SW	14	19N	18E		0.74	0.74	0.74	AFA			D
49586	091 N19 E18 18AADD1	14574	QM	WASHOE COUNTY	NE	NE	18	19N	18E		1.12		1.12	AFA	Y	Footnote 5	D
49587	091 N19 E18 18AAAA1	14686	QM	WASHOE COUNTY	NE	NE	18	19N	18E		3.36		3.36	AFA	Y	Footnote 5	D
49588	091 N19 E18 18ADAB2	14575	QM	WASHOE COUNTY	SE	NE	18	19N	18E		2.24		2.24	AFA	Y	Footnote 5	D
49589	091 N19 E18 18ADDB1	14576	QM	WASHOE COUNTY	NE	NE	18	19N	18E		6.72		6.72	AFA	Y	Footnote 5	D

**091 TRUCKEE CANYON
WATER YEAR 2021 GROUNDWATER PUMPAGE BY APPLICATION NUMBER**

APP NO.	SITE NAME	STATUS	MOU	OWNER OF RECORD	QQ	QTR	SEC	T	R	PER. ACRES	DUTY (AF)	SUPP ADJ	DUTY USED	UNIT	SUPP SRC	SUPP GW APP NO.	METHOD
49790	091 N19 E18 08CCAC1	PER	MUN	WASHOE COUNTY SCHOOL DISTRICT	SW	SW	8	19N	18E		144.24	144.24	3.84	AFA	Y	Footnote 1	R
56745	091 N19 E18 18ADAC1	14975	REC	WASHOE COUNTY	SW	NE	18	19N	18E		2.50	2.50	2.50	AFA			D
56810	091 N19 E18 17BAAB1	13943	QM	HIGHFIELD, GLEN R.	NE	NW	17	19N	18E		3.90	3.90	3.90	AFA	Y	Footnote 7	D
56811	091 N19 E18 17BAAB2	13944	QM	HIGHFIELD, GLEN R.	NE	NW	17	19N	18E		1.63	1.63	1.63	AFA	Y	Footnote 7	D
58928	091 N19 E18 18ADAC1	PER	QM	DE PAOLI, KEVIN AND MAUREEN (2.02 AF), PONCIA, RAYMOND JR (4.04)	SE	NE	18	19N	18E		6.06	6.06	6.06	AFA			D
59607	091 N19 E18 19DCAA1	PER	QM	BADER, GARY D. AND LETA KAYE (6.06 AF), LEAREY, K.L. AND DIANA L. (6.06 AF)	SW	SE	19	19N	18E		12.12	12.12	12.12	AFA			D
63269	091 N19 E18 22BABA1	17173	DOM	HOUSE, GEOFFERY H.S. & ALICE C.	NE	NW	22	19N	18E		4.04	4.04	4.04	AFA			D
63454	091 N19 E18 19ABBB1	PER	QM	RENO SPARKS INDIAN COLONY	NE	NE	19	19N	18E		5.00	5.00	5.00	AFA			D
65011	091 N19 E18 07DBDB1	17155	OTH	VERDI CEMETERY ASSOCIATION	NW	SE	7	19N	18E		0.88	0.88	0.88	AFA			D
65113	091 N19 E18 19DCBD1	18225	DOM	THE MICHAEL A. STEEVES AND DEBRA L. KING-STEEVES TRUST	SW	SE	19	19N	18E		4.04	4.04	4.04	AFA			D
65966	091 N19 E18 19ABCD1	18219	QM	STREMMEL CAPITAL GROUP, LLC	SW	NE	19	19N	18E		2.85	98.55	0.00	AFA	Y	Footnote 8	R
65967	091 N19 E18 19ABCD1	PER	COM	STREMMEL CAPITAL GROUP, LLC	SW	NE	19	19N	18E		46.30		0.00	AFA	Y	Footnote 8	R
65969	091 N19 E18 19ABCD1	18220	QM	STREMMEL CAPITAL GROUP, LLC	SW	NE	19	19N	18E		8.01		0.00	AFA	Y	Footnote 8	R
66262	091 N19 E18 16BCCD1	PER	QM	BT SOUTH, LLC	SW	NW	16	19N	18E		5.49		0.00	AFA	Y	Footnote 3	R
66263	091 N19 E18 16BCCD1	PER	QM	BT SOUTH, LLC	SW	NW	16	19N	18E		66.05		0.00	AFA	Y	Footnote 3	R
66264	091 N19 E18 16BCCD1	PER	QM	BT SOUTH, LLC	SW	NW	16	19N	18E		65.44		0.00	AFA	Y	Footnote 3	R
67235	091 N19 E18 02CDCB1	PER	MUN	SOMERSETT LLC	SE	SW	2	19N	18E		116.01	232.04	116.01	AFA	Y	Footnote 9	R
67236	091 N19 E18 12BCC1	PER	MUN	SOMERSETT OWNERS ASSOCIATION	NW	NW	12	19N	18E		116.01		N/A	AFA	Y	Footnote 9	Z
67697	091 N19 E18 09CAAC1	PER	QM	FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH	NE	SW	9	19N	18E		40.00		15.10	AFA	Y	Footnote 4	R
68695	091 N19 E18 19ABCD1	18221	QM	STREMMEL CAPITAL GROUP, LLC	SW	NE	19	19N	18E		0.21		0.21	AFA	Y	Footnote 8	R
68897	091 N19 E18 08DBDA1	PER	QM	FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH	NW	SE	8	19N	18E		38.00		44.00	AFA	Y	Footnote 4	R
70613	091 N19 E18 10CCDB1	PER	MUN	SOMERSETT DEVELOPMENT COMPANY, LTD	SW	SW	10	19N	18E		175.77	175.77	118.52	AFA			R
70614	091 N19 E18 10CDBB1	PER	MUN	SOMERSETT OWNERS ASSOCIATION	SE	SW	10	19N	18E		66.01		N/A	AFA	Y	Footnote 9	Z
72898	091 N19 E18 17BBAD1	18823	COM	PIERCZYK, MICHAEL W.	NW	NW	17	19N	18E		5.00	5.00	5.00	AFA			D
74290	091 N19 E18 16AAAC1	PER	MUN	TMWA	NE	NE	16	19N	18E		18.00		N/A	AFA	Y	Footnote 9	Z
75297	091 N19 E18 19ABCD1	PER	QM	STREMMEL CAPITAL GROUP, LLC	SW	NE	19	19N	18E		ABR	ABR	ABR	AFA	Y		R
75859	091 N19 E18 16AAAC1	PER	MUN	TMWA	NE	NE	16	19N	18E		42.00		N/A	AFA	Y	Footnote 9	Z
75970	091 N19 E18 16AAAC1	PER	MUN	PIONEER INN ASSOCIATES LP	NE	NE	16	19N	18E		173.64	173.64	N/A	AFA			Z
76479	091 N19 E18 10CCDB1	PER	QM	SOMERSETT OWNERS ASSOCIATION	SW	SW	10	19N	18E		100.00	100.00	-	AFA	Y	Footnote 10	R
76481	091 N19 E18 02CDCB1	PER	QM	SOMERSETT OWNERS ASSOCIATION	SE	SW	2	19N	18E		100.00		100.00	AFA	Y	Footnote 10	R
77163	091 N19 E18 16AAAC1	PER	MUN	SOMERSETT OWNERS ASSOCIATION	NE	NE	16	19N	18E		3.45	3.45	N/A	AFA			Z
77318	091 N19 E18 10CCDB1	PER	QM	SOMERSETT OWNERS ASSOCIATION	SW	SW	10	19N	18E		50.00		-	AFA	Y	Footnote 9	R
77704	091 N19 E18 16AAAC1	PER	MUN	TMWA	NE	NE	16	19N	18E		40.00		N/A	AFA	Y	Footnote 9	Z
82201	091 N19 E18 10CCDB1	PER	QM	SOMERSETT OWNERS ASSOCIATION	SW	SW	10	19N	18E		100.00		-	AFA	Y	Footnote 10	R
82484	091 N19 E18 08CDAB1	PER	QM	JAMES R. AND SUSAN M. DAVENPORT FAMILY TRUST (11.20 AF), SIERRA MOUNTAIN MORTGAGE 401K GOACOMINI (1.12 AF), STANDER, MICHAEL D. AND CHERYL (1.12 AF), VERDI VISION LLC (3.36 AF)	SE	SW	8	19N	18E		16.80	16.80	2.50	AFA			R
83074	091 N19 E18 08CADD1	PER	QM	VERDI SPRINGS LLC	NE	SW	8	19N	18E		724.00	724.00	N/A	AFA			Z
83986	091 N19 E18 16AAAC1	PER	MUN	TMWA	NE	NE	16	19N	18E		2.89		N/A	AFA	Y	Footnote 9	Z
83987	091 N19 E18 16AAAC1	PER	MUN	TMWA	NE	NE	16	19N	18E		1.00		N/A	AFA	Y	Footnote 9	Z

**091 TRUCKEE CANYON
WATER YEAR 2021 GROUNDWATER PUMPAGE BY APPLICATION NUMBER**

APP NO.	SITE NAME	STATUS	MOU	OWNER OF RECORD	QQ	QTR	SEC	T	R	PER. ACRES	DUTY (AF)	SUPP ADJ	DUTY USED	UNIT	SUPP SRC	SUPP GW APP NO.	METHOD
83988	091 N19 E18 16AAAC1	PER	MUN	TMWA	NE	NE	16	19N	18E		6.14		N/A	AFA	Y	Footnote 9	Z
83989	091 N19 E18 16AAAC1	PER	MUN	TMWA	NE	NE	16	19N	18E		6.00		N/A	AFA	Y	Footnote 9	Z
88580	091 N19 E18 18DDAB1	PER	COM	39 VENTURES	SE	SE	18	19N	18E		ABR	ABR	ABR	AFA	Y	Footnote 11	Z
90219	091 N19 E18 19DBCBC1	PER	QM	SAY HEY, LLC	NW	SE	19	19N	18E		4.20		N/A	AFA	Y	Footnote 8	Z
90308	091 N19 E18 18DDAC1	PER	COM	WHISPERING ROAD INVESTMENTS, LLC	SE	SE	18	19N	18E		5.00	5.00	N/A	AFA	Y	Footnote 11	Z
90309	091 N19 E18 18DDAC1	PER	COM	WHISPERING ROAD INVESTMENTS, LLC	SE	SE	18	19N	18E		5.00		N/A	AFA	Y	Footnote 11	Z
49011A01	091 N19 E18 19ABCD1	18722	COM	STREMMEL CAPITAL GROUP, LLC		LT10	19	19N	18E		24.97		0.00	AFA	Y	Footnote 8	R
V03021	091 N19 E18 18AA	VST	COM	FERRONI, KAREN TRUSTEE	NE	NE	18	19N	18E		0.00	0.00	0.00	AFA			E
V03034	091 N19 E18 14BDBD1	VST	STK	BROWN, ARROYO	SW	NW	14	19N	18E		119.47	119.47	0.00	AFA			E
V03035	091 N19 E18 14BC	VST	IRR	BROWN, JACKSIC	SW	NW	14	19N	18E	2.00	8.00	8.00	0.00	AFA			E
V04620	091 N19 E18 17BBAD1	VST	COM	DE DEMONICO, MICHAEL	NW	NW	17	19N	18E		0.00	0.00	0.00	AFA			D
V05664	091 N19 E18 17BAAB2	VST	COM	HIGHFIELD, GLEN R.	NE	NW	17	19N	18E		9.76	9.76	1.00	AFA	Y	Footnote 7	E
V09309	091 N19 E18 17AADD1	VST	QM	MIDDAGH, KAREN L.	SE	NE	17	19N	18E		0.00	0.00	0.00	AFA			D
V09612	091 N19 E18 14CCCA1	VST	IND	TMWA	SW	SW	14	19N	18E		0.25	0.25	0.00	AFA			E
V10762	091 N19 E18 17BB	VST	COM	RIVERBELLE PROPERTIES LLC	NW	NW	17	19N	18E		0.00	0.00	0.00	AFA			E

Footnotes:

1. The total combined duty of water under Permits 20302 and 49790 shall not exceed 144.24 acre-feet annually.
2. The total combined duty of water under Permits 22524 and 22525 shall not exceed 5.64 acre-feet annually.
3. The total combined duty of water under Permits 36512, 44593, 44594, 44595, 44596, 66262, 66263 and 66264 shall not exceed 886.86 acre-feet annually.
4. The total combined duty of water under Permits 45241, 67697 and 68897 shall not exceed 80.00 acre-feet annually.
5. The total combined duty of water under Permits 34591, 46998, 47000, 47171, 47351, 47611, 47683, 47787, 49067, 49068 49069, 49586, 49587, 49588, 49589 shall not exceed 114.04 acre-feet annually.
6. The total combined duty of water under Permit 36837 and 36991 shall not exceed 10.10 acre-feet annually.
7. The total combined duty of water under Permits 56810, 56811 and V05664 shall not exceed 15.29 acre-feet annually.
8. The total combined duty of water under Permits 49011A01, 65966, 65967, 68695 and 90219 shall not exceed 98.549 acre-feet annually.
9. The total combined duty of water under Permits 67235, 67236, 70614, 74290, 75859, 77704, 83986, 83987, 83988 and 83989 shall not exceed 232.04 acre-feet annually.
10. The total combined duty of water under Permits 76479, 76481 and 82201 shall not exceed 100 acre-feet annually.
11. The total combined duty of water under Permit 90308 and Permit 90309 shall not exceed 5 acre-feet annually.

**APPENDIX B. TRUCKEE CANYON HISTORICAL PUMPAGE BY POINT OF
DIVERSION**

SITE NAME	APP NO.	MOU	OWNER OF RECORD	DUTY (AF) 2021	DUTY USED 2018	DUTY USED 2019	DUTY USED 2020	DUTY USED 2021
091 N19 E18 02CDCB1	67235, 76481	MUN, QM	SOMERSETT LLC; SOMERSETT OWNERS ASSOCIATION	216.01	116.01	116.01	30.25	216.01
091 N19 E18 07DACA1	49067	QM	ALAN GLEN	75.96	75.96	75.96	75.96	75.96
091 N19 E18 07DBDB1	65011	OTH	VERDI CEMETERY ASSOCIATION	0.88	0.88	0.88	0.88	0.88
091 N19 E18 07DDAA1	47351	QM	WASHOE COUNTY	2.24	2.24	2.24	2.24	2.24
091 N19 E18 07DDCD1	46998	QM	WASHOE COUNTY	3.36	3.36	3.36	3.36	3.36
091 N19 E18 07DDDC1	47611	QM	WASHOE COUNTY	3.36	3.36	3.36	3.36	3.36
091 N19 E18 07DDDD1	47171	QM	WASHOE COUNTY	1.12	1.12	1.12	1.12	1.12
091 N19 E18 08CADD1	83074	QM	VERDI SPRINGS LLC	724.00	0.00	0.00	N/A	N/A
091 N19 E18 08CCAC1	49790	MUN	WASHOE COUNTY SCHOOL DISTRICT	144.24	0.00	0.00	10.00	3.84
091 N19 E18 08CCCA1	20302	OTH	WASHOE COUNTY SCHOOL DISTRICT	19.58	19.58	19.58	16.40	3.85
091 N19 E18 08CDAB1	82484	QM	JAMES R. AND SUSAN M. DAVENPORT FAMILY TRUST (11.20 AF), SIERRA MOUNTAIN MORTGAGE 401K GOACOMINI (1.12 AF), STANDER, MICHAEL D. AND CHERYL (1.12 AF), VERDI VISION LLC (3.36 AF)	16.80	0.00	0.00	0.00	2.50
091 N19 E18 08DBDA1	68897	QM	FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH	38.00	0.00	41.49	49.83	44.00
091 N19 E18 08DCDC1	27186	COM	HARKER & HARKER	25.53	25.18	25.18	25.53	25.53
091 N19 E18 09CAAC1	67697	QM	FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH	40.00	38.00	17.22	13.33	15.10
091 N19 E18 09CCBB1	45241	QM	FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH	2.00	2.00	4.66	0.00	0.00
091 N19 E18 09DCBC1	43293	QM	SUREBREC HOLDINGS, LLC, A NEVADA LIMITED LIABILITY COMPANY	4.94	4.94	4.94	4.94	4.94
091 N19 E18 10CCDB1	70613, 76479, 77318, 82201	MUN, QM	SOMERSETT DEVELOPMENT COMPANY, LTD; SOMERSETT OWNERS ASSOCIATION	425.77	175.77	256.38	120.00	118.52
091 N19 E18 10CDBB1	70614	MUN	SOMERSETT OWNERS ASSOCIATION	66.01	0.00	0.00	N/A	N/A
091 N19 E18 12BBCC1	67236	MUN	SOMERSETT OWNERS ASSOCIATION	116.01	0.00	0.00	N/A	N/A
091 N19 E18 14BC	V03035	IRR	BROWN, JACKSIC	8.00	0.00	0.00	0.00	0.00
091 N19 E18 14BDBD1	V03034	STK	BROWN, ARROYO	119.47	0.00	0.00	0.00	0.00
091 N19 E18 14CABD1	49301	COM	MOGUL ENTERPRISES	0.74	0.74	0.74	0.74	0.74
091 N19 E18 14CCCA1	V09612	IND	TMWA	0.25	0.25	0.25	0.00	0.00
091 N19 E18 15CBCC1	33050	IRR	BELLI, JEANETTE	55.33	28.04	28.04	47.08	49.37
091 N19 E18 15DCBC1	21764	STK	MINTAGE INVESTMENT, INC.	4.48	4.48	4.48	4.48	4.48
091 N19 E18 16AAAC1	74290, 75859, 75970, 77163, 77704, 83986, 83987, 83988, 83989	MUN	TMWA; PIONEER INN ASSOCIATES LP; SOMERSETT OWNERS ASSOCIATION	293.12	0.00	0.00	N/A	N/A
091 N19 E18 16BCBC1	44595	QM	BATES STRINGER-RENO, LLC (41.68 AFA), BT SOUTH, LLC (300.73 AFA), DP CLARK GARSON ROAD, LLC (31.10 AFA), QUILICI INVESTMENTS (100 AFA), RENO LAND DEVELOPMENT COMPANY, LLC (8.88), SJP RENO PROPERTY (159.12 AFA), TMWA (2.15 AFA)	886.86	100.00	0.00	0.00	0.00

SITE NAME	APP NO.	MOU	OWNER OF RECORD	DUTY (AF) 2021	DUTY USED 2018	DUTY USED 2019	DUTY USED 2020	DUTY USED 2021
091 N19 E18 16BCCD1	66262, 66263, 66264	QM	BT SOUTH, LLC	136.98	46.03	79.75	6.35	0.00
091 N19 E18 16BCDB1	44594	QM	BT SOUTH, LLC (20.991 AFA), SJP RENO PROPERTY LLC (10.709 AFA)	31.70	31.70	14.32	26.96	24.02
091 N19 E18 16CADD1	36512	QM	BT SOUTH, LLC (1.39 AFA), SJP RENO PROPERTY, LLC (0.709 AFA)	2.10	2.10	2.10	2.10	2.10
091 N19 E18 16CBAA1	44593	QM	BT SOUTH, LLC (64.632 AFA), SJP RENO PROPERTY LLC (35.058 AFA)	99.68	99.68	0.00	0.00	0.00
091 N19 E18 17AADD1	V09309	QM	MIDDAGH, KAREN L.	0.00	0.00	0.00	0.00	0.00
091 N19 E18 17ABAA1	35112	QM	PETERSON, LUCILLE L.	CAN	0.00	CAN	CAN	CAN
091 N19 E18 17ABDD1	44596	QM	BATES STRINGER-RENO, LLC (41.68 AFA), BT SOUTH, LLC (300.73 AFA), DP CLARK GARSON ROAD, LLC (31.10 AFA), QUILICI INVESTMENTS (100 AFA), RENO LAND DEVELOPMENT COMPANY, LLC (8.88), SJP RENO PROPERTY (159.12 AFA), TMWA (2.15 AFA)	886.86	0.00	0.00	108.51	112.84
091 N19 E18 17BAAB1	56810	QM	HIGHFIELD, GLEN R.	3.90	3.90	3.90	3.90	3.90
091 N19 E18 17BAAB2	56811, V05664	QM, COM	HIGHFIELD, GLEN R.	11.39	11.39	11.39	6.38	2.63
091 N19 E18 17BABA1	45419	QM	BEYERS, SHARRON LEE	2.24	2.24	2.24	2.24	2.24
091 N19 E18 17BABB1	44110	COM	BELL TELEPHONE COMPANY OF NEVADA	0.03	0.03	0.03	0.03	0.03
091 N19 E18 17BB	V10762	COM	RIVERBELLE PROPERTIES LLC	0.00	24.20	24.20	0.00	0.00
091 N19 E18 17BBAD1	72898, V04620	COM	PIERCZYK, MICHAEL W.; DE DEMONICO, MICHAEL	5.00	3.00	3.00	5.00	5.00
091 N19 E18 17BBCB1	47000	QM	WASHOE COUNTY	3.36	3.36	3.36	3.36	3.36
091 N19 E18 18AA	V03021	COM	FERRONI, KAREN TRUSTEE	0.00	0.00	0.00	0.00	0.00
091 N19 E18 18AAAA1	49587	QM	WASHOE COUNTY	3.36	3.36	3.36	3.36	3.36
091 N19 E18 18AAAD1	34591	QM	WASHOE COUNTY	2.24	2.24	2.24	2.24	2.24
091 N19 E18 18AABD1	47787	QM	WASHOE COUNTY	2.24	2.24	2.24	2.24	2.24
091 N19 E18 18AAD1	47683	QM	WASHOE COUNTY	2.24	2.24	2.24	2.24	2.24
091 N19 E18 18AADD1	49068, 49586	QM	WASHOE COUNTY	3.36	3.36	3.36	3.36	3.36
091 N19 E18 18ADAB1	49069	QM	WASHOE COUNTY	2.24	2.24	2.24	2.24	2.24
091 N19 E18 18ADAB2	49588	QM	WASHOE COUNTY	2.24	2.24	2.24	2.24	2.24
091 N19 E18 18ADAC1	56745, 58928	REC, QM	WASHOE COUNTY; DE PAOLI, KEVIN AND MAUREEN (2.02 AF), PONCIA, RAYMOND JR (4.04)	8.56	2.50	2.95	8.56	8.56
091 N19 E18 18ADDB1	49589	QM	WASHOE COUNTY	6.72	6.72	6.72	6.72	6.72
091 N19 E18 18DDAB1	88580	COM	39 VENTURES	ABR	N/A	N/A	N/A	ABR
091 N19 E18 18DDAC1	90308, 90309	COM	WHISPERING ROAD INVESTMENTS, LLC	10.00	N/A	N/A	N/A	N/A
091 N19 E18 19ABAD1	22524	IRR	OBEC HOLDINGS LLC	5.64	0.00	0.00	2.00	2.82
091 N19 E18 19ABAD2	22525	IRR	OBEC HOLDINGS LLC	5.64	0.00	0.00	2.00	2.82
091 N19 E18 19ABBB1	36991, 63454	QM	RENO SPARKS INDIAN COLONY	15.10	1.00	1.00	CAN	5.12
091 N19 E18 19ABBD1	36837	QM	RENO SPARKS INDIAN COLONY	10.10	0.00	0.00	CAN	0.13

SITE NAME	APP NO.	MOU	OWNER OF RECORD	DUTY (AF) 2021	DUTY USED 2018	DUTY USED 2019	DUTY USED 2020	DUTY USED 2021
091 N19 E18 19ABCD1	65966, 65967, 65969, 68695, 75297, 49011A01	QM, COM	STREMMEL CAPITAL GROUP, LLC	82.34	59.28	59.28	33.94	0.21
091 N19 E18 19DBCB1	90219	QM	SAY HEY, LLC	4.20	N/A	N/A	N/A	N/A
091 N19 E18 19DBDC1	46850	COM	GOLDBEAVER, LLC	1.37	1.37	1.37	1.37	1.37
091 N19 E18 19DCAA1	59607	QM	BADER, GARY D. AND LETA KAYE (6.06 AF), LEAREY, K.L. AND DIANA L. (6.06 AF)	12.12	0.00	0.00	12.12	12.12
091 N19 E18 19DCBD1	65113	DOM	THE MICHAEL A. STEEVES AND DEBRA L. KING- STEEVES TRUST	4.04	4.04	4.04	4.04	4.04
091 N19 E18 22BAAA1	45176	QM	MINTAGE INVESTMENT, INC.	2.24	2.24	2.24	2.24	2.24
091 N19 E18 22BABA1	63269	DOM	HOUSE, GEOFFERY H.S. & ALICE C.	4.04	4.04	4.04	4.04	4.04

ABR - Abrogated

CAN - Canceled

N/A - Not Applicable