

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

ADAM SULLIVAN, P.E.
ACTING STATE ENGINEER



TRUCKEE CANYON
HYDROGRAPHIC BASIN 6-091

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2018

Prepared By: Melissa M. Marr

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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 2018 (October 1, 2017 through September 30, 2018). 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 2018, the committed groundwater resource totaled 3,992 acre-feet, with estimated pumpage of approximately **1,386 acre-feet**. This figure includes an estimated 465 acre-feet pumped from exempt domestic wells.

Pumping by exempt domestic wells was the largest manner of use within the basin, estimated at 465 acre-feet in water year 2018. The second largest manner of use was quasi-municipal, with pumpage totaling 453 acre-feet, and appropriations totaling 2,093 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 2018 | 1,386 ¹ |
| STATE ENGINEER'S ORDERS | |
| 706 – DESIGNATION | DATE: MARCH 1, 1978 |
| 1213 – PREFERRED USE | DATE: JANUARY 28, 2011 |

| | | | | | | | | | | |
|---|---------------------|-----------------------|-----------------------|--------------------|---------------------|--------------|-----------------------------|--------------------|---------------------|--|
| COMMITTED GROUNDWATER RESOURCE ² : 3,992 ACRE-FEET | DATE: MARCH 2019 | | | | | | | | | |
| <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">COMMERCIAL 38</td> <td style="width: 33%;">DOMESTIC..... 930</td> <td style="width: 33%;">INDUSTRIAL 0.25</td> </tr> <tr> <td>IRRIGATION..... 75</td> <td>MUNICIPAL 729</td> <td>OTHER..... 1</td> </tr> <tr> <td>QUASI-MUNICIPAL 2,093</td> <td>RECREATION 3</td> <td>STOCKWATER..... 124</td> </tr> </table> | COMMERCIAL 38 | DOMESTIC..... 930 | INDUSTRIAL 0.25 | IRRIGATION..... 75 | MUNICIPAL 729 | OTHER..... 1 | QUASI-MUNICIPAL 2,093 | RECREATION 3 | STOCKWATER..... 124 | |
| COMMERCIAL 38 | DOMESTIC..... 930 | INDUSTRIAL 0.25 | | | | | | | | |
| IRRIGATION..... 75 | MUNICIPAL 729 | OTHER..... 1 | | | | | | | | |
| QUASI-MUNICIPAL 2,093 | 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 March 2019. 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 465 domestic wells existed in the basin during water year 2018. 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 930 acre-feet annually.

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 2018 (October 1, 2017 through September 30, 2018) 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 (07-100A) to the north, Lemmon Valley Western Region (07-092A) and Lemmon Valley Eastern Region (07-092B) 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 USGS 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. The amount of water pumped annually by exempt domestic wells is estimated to be 1 acre-foot per well in the Truckee Canyon, or 465 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 | 28 | 292 | 20 | 453 | 3 | 4 | 1,386 |

FIGURES

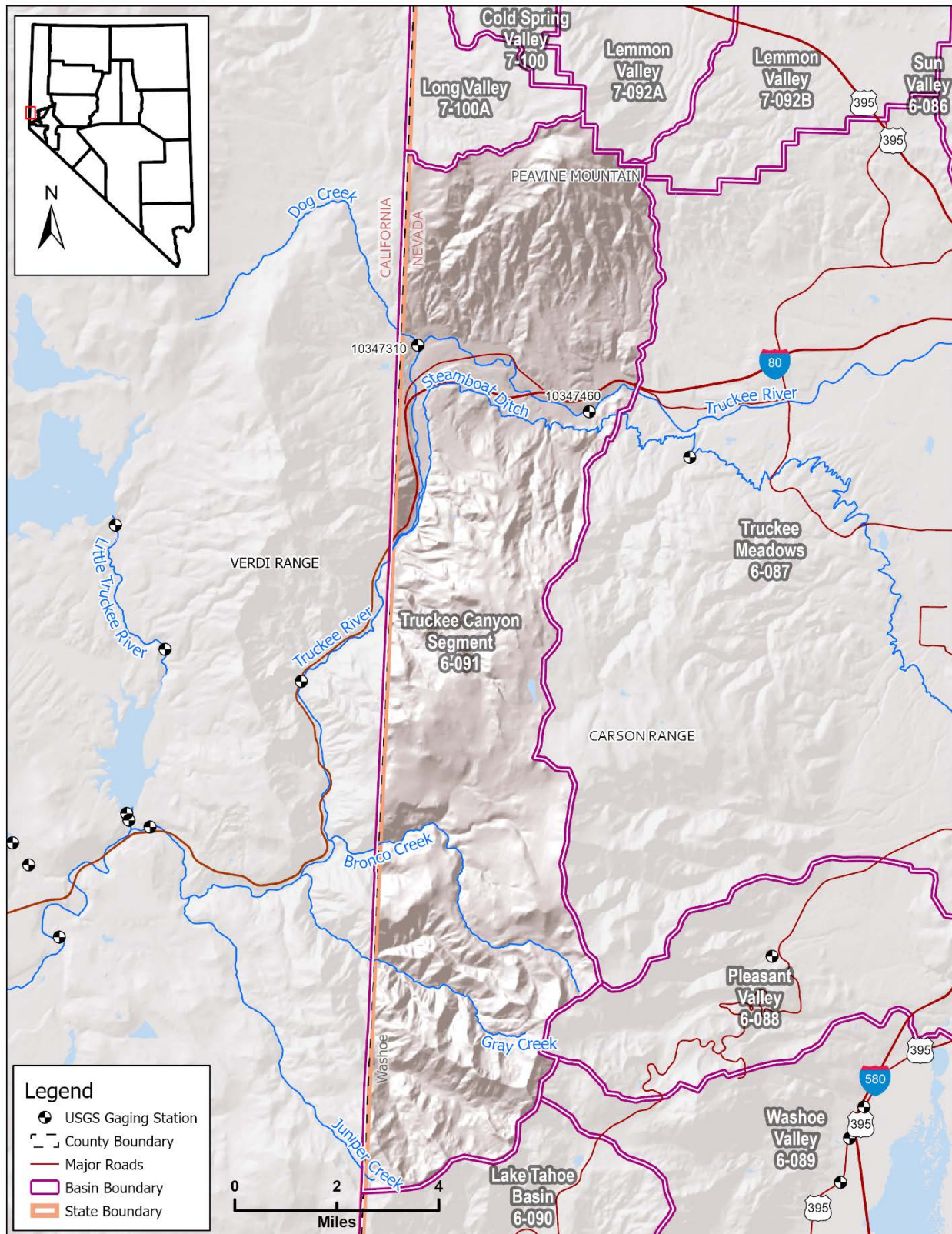


Figure 1. Physiographic map of Truckee Canyon (Hydrographic Basin 6-091).

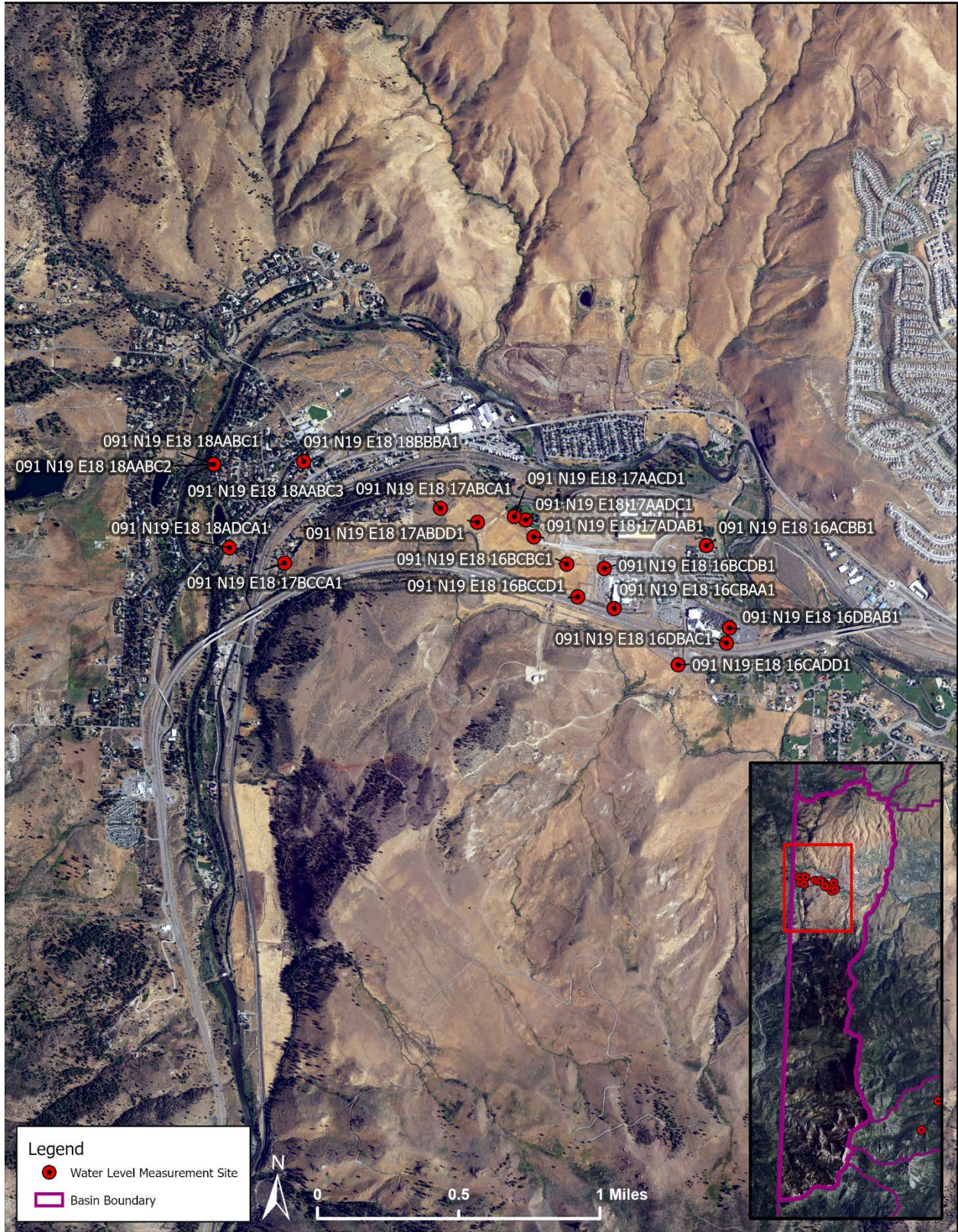


Figure 2. Truckee Canyon water level measurement sites.

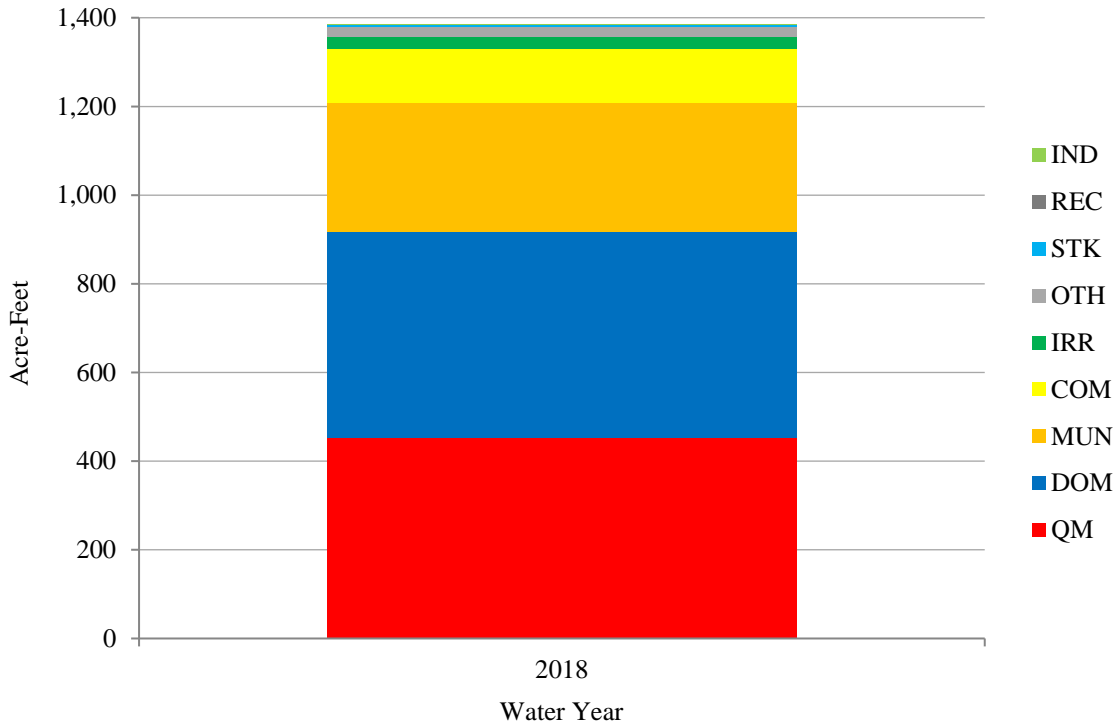


Figure 3. Truckee Canyon historical pumpage by manner of use.

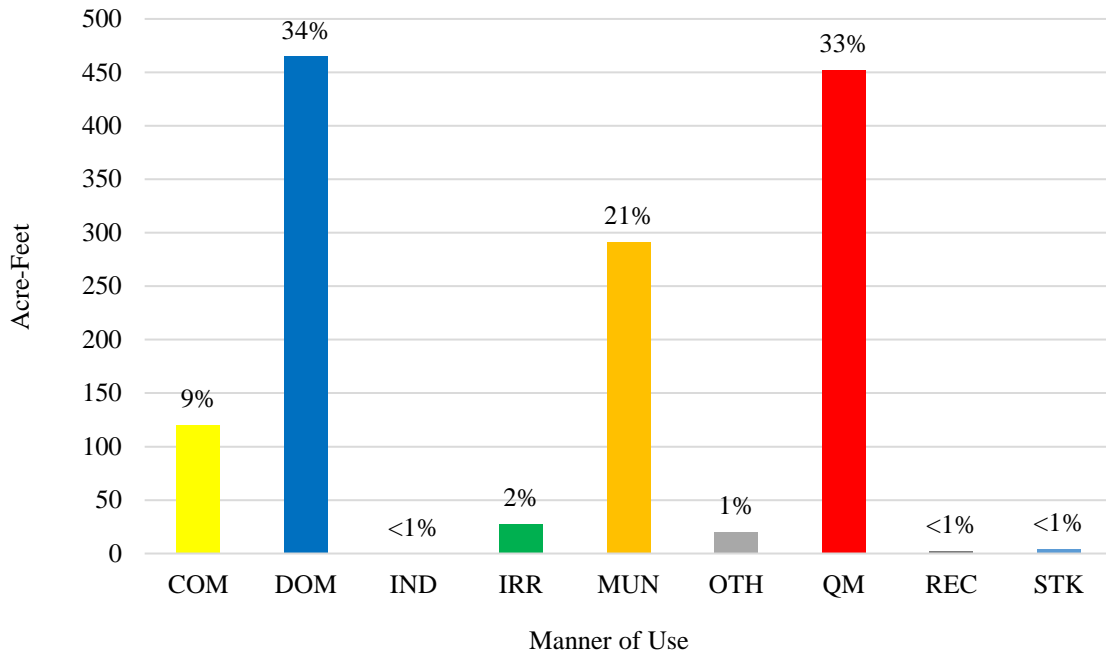


Figure 4. Percentage of 2018 groundwater pumpage by manner of use.

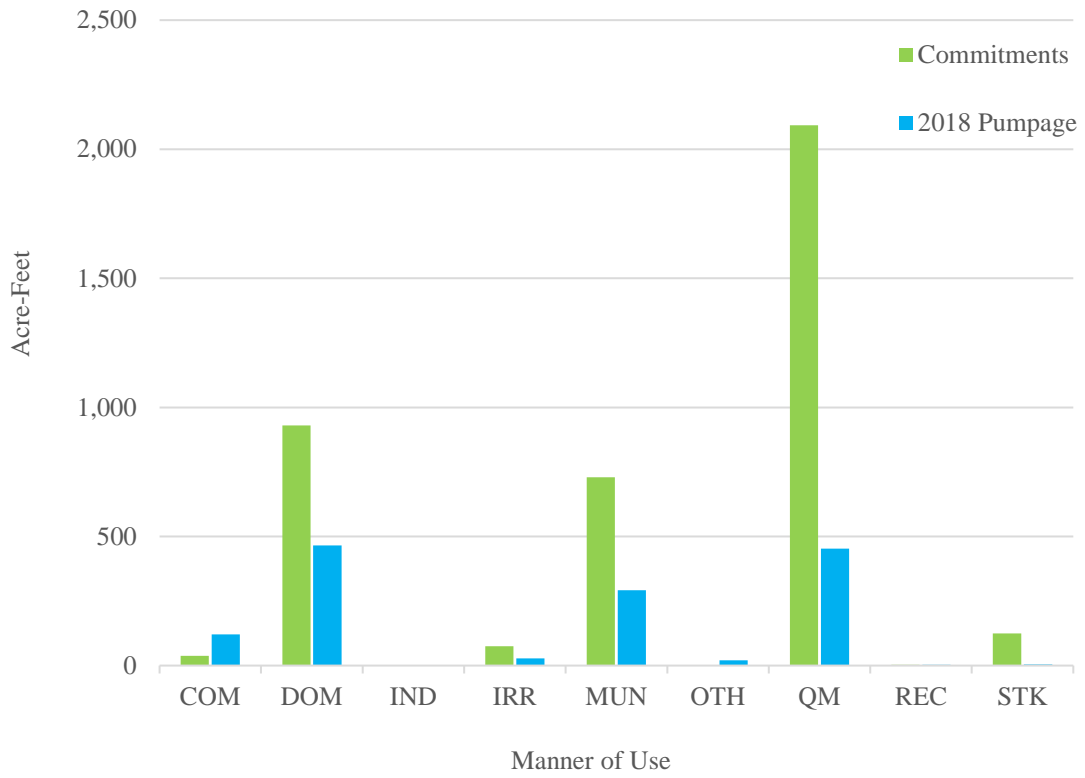


Figure 5. Comparison between 2018 groundwater commitments and estimated pumpage.

**APPENDIX A. TRUCKEE CANYON 2018 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. |
| SITE NAME | An ID assigned to each well based on its geographic location. |
| STATUS | Indicates if the application is a Permit (PER) or if it has been certificated. If an application has been certificated, the certificate number will be listed in the column. |
| MOU | The manner of use of the appropriated water. 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. |
| PLACE OF USE | |
| 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) or acre-feet seasonally (AFS). AFS limits water usage to certain months of the year. |
| SUPP SRC | Where more than one source is appurtenant to the same place of use, the sources are considered supplemental. |
| SUPP GW APP NO. | The file number(s) of any supplemental groundwater appropriations. Supplemental application groups are listed at the end of Appendix A. |

METHOD The method used to estimate pumpage, or duty used.
D - Duty.
E - The observed use during field investigation.
M - Meter reading on a totalizing meter.
N - The acreage multiplied by the Net Irrigation Water Requirement (NIWR) for the crop
 grown in the basin divided by the efficiency of the irrigation method.
R - Reported pumpage.

| TRUCKEE CANYON WATER YEAR 2018 | | | | | | | | | | | | | | | | | |
|---|---------------------|--------|-----|---|------|-----|-----|-----|-----|------------|-----------|----------|-----------|-------|----------|-----------------|--------|
| 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 | UNITS | 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 | | 19.58 | AFA | Y | Footnote 1 | D |
| 21764 | 091 N19 E18 15DCBC1 | 5972 | STK | MOGUL 1, LLC | 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 | | 11.64 | 11.64 | 0.00 | AFA | Y | Footnote 2 | E |
| 22525 | 091 N19 E18 19ABAD2 | 6013 | IRR | OBEC HOLDINGS LLC | NW | NE | 19 | 19N | 18E | | 11.64 | | 0.00 | AFA | Y | | E |
| 27186 | 091 N19 E18 08DCDC1 | 8967 | COM | HARKER & HARKER | SW | SE | 8 | 19N | 18E | | 25.53 | 25.53 | 25.18 | AFA | | | E |
| 33050 | 091 N19 E18 15BCCC1 | 10548 | IRR | BELL, JEANETTE AND M.L. | NW | SW | 15 | 19N | 18E | 13.83 | 55.33 | 55.33 | 28.04 | AFA | | | E |
| 34591 | 091 N19 E18 18AAAD1 | 14777 | QM | WASHOE COUNTY | NE | NE | 18 | 19N | 18E | | 2.24 | 114.04 | 2.24 | AFA | | Footnote 5 | E |
| 35112 | 091 N19 E18 17ABAA1 | PER | QM | PETERSON, LUCILLE L. | NW | NE | 17 | 19N | 18E | | 8.38 | 8.38 | 0.00 | AFA | | | E |
| 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 | E |
| 36837 | 091 N19 E18 19ABBD1 | PER | QM | WASHOE COUNTY | NW | NW | 19 | 19N | 18E | | 10.10 | 10.10 | 0.00 | AFA | Y | Footnote 7 | E |
| 36991 | 091 N19 E18 19ABBB1 | PER | QM | WASHOE COUNTY | NW | NW | 19 | 19N | 18E | | 10.10 | | 0.00 | AFA | Y | Footnote 7 | E |
| 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 | | 99.68 | AFA | Y | Footnote 3 | D |
| 44594 | 091 N19 E18 16CDBB1 | 12462 | QM | BT SOUTH, LLC (20.991 AFA), SJP RENO PROPERTY LLC (10.709 AFA) | SW | NW | 16 | 19N | 18E | | 31.70 | | 31.70 | AFA | Y | Footnote 3 | D |
| 44595 | 091 N19 E18 16CBCB1 | PER | QM | BATES STRINGER-RENO, LLC (41.68 AFA), BT SOUTH, LLC (300.73 AFA), DP CLARK GARSON ROAD, LLC (31.10 AFA), OULICI INVESTMENTS (100 BATES STRINGER-RENO, LLC (41.68 AFA), BT SOUTH, LLC (300.73 AFA), DP CLARK GARSON ROAD, LLC (31.10 AFA), OULICI INVESTMENTS (100 | SW | NW | 16 | 19N | 18E | | 886.86 | | 100.00 | AFA | Y | Footnote 3 | E |
| 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), OULICI INVESTMENTS (100 | NW | NE | 17 | 19N | 18E | | 886.86 | | 0.00 | AFA | Y | Footnote 3 | E |
| 45176 | 091 N19 E18 22BAAA1 | 12056 | QM | MOGUL 1, LLC | 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 | 2.00 | AFA | Y | Footnote 4 | E |
| 45419 | 091 N19 E18 17BABA1 | 12222 | QM | BEYERS, SHARRON LEE AND IRENE CUSICK | NE | NW | 17 | 19N | 18E | | 2.24 | 2.24 | 2.24 | AFA | | | D |
| 46850 | 091 N19 E18 19DBDC1 | 14189 | COM | EXIT 1, 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 |
| 49011A01 | 091 N19 E18 19ABCD1 | 18722 | COM | STREMMEL CAPITAL GROUP, LLC | LT10 | | 19 | 19N | 18E | | 24.97 | | 24.97 | AFA | Y | Footnote 8 | E |
| 49067 | 091 N19 E18 07DACA1 | PER | QM | ESTATE OF HERBERT KRONISH | 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 |
| 49790 | 091 N19 E18 08CCAC1 | PER | MUN | WASHOE COUNTY SCHOOL DISTRICT | SW | SW | 8 | 19N | 18E | | 144.24 | 144.24 | 0.00 | AFA | Y | Footnote 1 | E |
| 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 | 15.29 | 3.90 | AFA | Y | Footnote 6 | D |

| TRUCKEE CANYON WATER YEAR 2018 | | | | | | | | | | | | | | | | | |
|---|---------------------|--------|-----|--|----|-----|-----|-----|-----|------------|-----------|----------|-----------|-------|----------|-----------------|--------|
| 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 | UNITS | SUPP SRC | SUPP GW APP NO. | METHOD |
| 56811 | 091 N19 E18 17BAAB2 | 13944 | QM | HIGHFIELD, GLEN R. | NE | NW | 17 | 19N | 18E | | 1.63 | | 1.63 | AFA | Y | Footnote 6 | D |
| 58928 | 091 N19 E18 18ADAC1 | PER | QM | DE PAOLI, KEVIN AND MAUREEN | SE | NE | 18 | 19N | 18E | | 8.08 | 8.08 | 0.00 | AFA | | | E |
| 59607 | 091 N19 E18 19DCAA1 | PER | QM | BADER, GARY D. AND LETA KAYE | SW | SE | 19 | 19N | 18E | | 12.12 | 12.12 | 0.00 | AFA | | | E |
| 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 | 1.00 | AFA | | | E |
| 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 | 102.55 | 2.85 | AFA | Y | Footnote 8 | R |
| 65967 | 091 N19 E18 19ABCD1 | PER | COM | STREMMEL CAPITAL GROUP, LLC | SW | NE | 19 | 19N | 18E | | 46.30 | | 31.25 | 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 | | 5.49 | AFA | Y | Footnote 3 | R |
| 66263 | 091 N19 E18 16BCCD1 | PER | QM | BT SOUTH, LLC | SW | NW | 16 | 19N | 18E | | 66.05 | | 40.54 | 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 | | 0.00 | AFA | Y | Footnote 9 | R |
| 67697 | 091 N19 E18 09CAAC1 | PER | QM | FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH | NE | SW | 9 | 19N | 18E | | 40.00 | | 38.00 | 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 08BDA1 | PER | QM | FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH | NW | SE | 8 | 19N | 18E | | 38.00 | | 0.00 | 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 | 175.77 | AFA | | | R |
| 70614 | 091 N19 E18 10CDBB1 | PER | MUN | SOMERSETT OWNERS ASSOCIATION | SE | SW | 10 | 19N | 18E | | 66.01 | | 0.00 | AFA | Y | Footnote 9 | R |
| 72898 | 091 N19 E18 17BBAD1 | 18823 | COM | PIERCZYK, MICHAEL W. | NW | NW | 17 | 19N | 18E | | 5.00 | 5.00 | 3.00 | AFA | | | E |
| 74290 | 091 N19 E18 16AAAC1 | PER | MUN | TMWA | NE | NE | 16 | 19N | 18E | | 18.00 | | 0.00 | AFA | Y | Footnote 9 | R |
| 75297 | 091 N19 E18 19ABCD1 | PER | QM | STREMMEL CAPITAL GROUP, LLC | SW | NE | 19 | 19N | 18E | | 20.20 | | 0.00 | AFA | Y | Footnote 8 | R |
| 75859 | 091 N19 E18 16AAAC1 | PER | MUN | TMWA | NE | NE | 16 | 19N | 18E | | 42.00 | | 0.00 | AFA | Y | Footnote 9 | R |
| 75970 | 091 N19 E18 16AAAC1 | PER | MUN | PIONEER INN ASSOCIATES LP | NE | NE | 16 | 19N | 18E | | 173.64 | 173.64 | 0.00 | AFA | Y | | R |
| 76479 | 091 N19 E18 10CCDB1 | PER | QM | SOMERSETT OWNERS ASSOCIATION | SW | SW | 10 | 19N | 18E | | 100.00 | 100.00 | 0.00 | AFA | Y | Footnote 10 | R |
| 76481 | 091 N19 E18 02CDCB1 | PER | QM | SOMERSETT OWNERS ASSOCIATION | SE | SW | 2 | 19N | 18E | | 100.00 | | 0.00 | AFA | Y | Footnote 10 | R |
| 77163 | 091 N19 E18 16AAAC1 | PER | MUN | SOMERSETT OWNERS ASSOCIATION | NE | NE | 16 | 19N | 18E | | 3.45 | 3.45 | 0.00 | AFA | | | R |
| 77318 | 091 N19 E18 10CCDB1 | PER | QM | SOMERSETT OWNERS ASSOCIATION | SW | SW | 10 | 19N | 18E | | 50.00 | | 0.00 | AFA | Y | Footnote 9 | R |
| 77704 | 091 N19 E18 16AAAC1 | PER | MUN | TMWA | NE | NE | 16 | 19N | 18E | | 40.00 | | 0.00 | AFA | Y | Footnote 9 | R |
| 82201 | 091 N19 E18 10CCDB1 | PER | QM | SOMERSETT OWNERS ASSOCIATION | SW | SW | 10 | 19N | 18E | | 100.00 | | 0.00 | AFA | Y | Footnote 10 | R |
| 82484 | 091 N19 E18 08CDAB1 | PER | QM | JAMES R. AND SUSAN M. DAVENPORT FAMILY TRUST DATED JULY 15, 2004 | SE | SW | 8 | 19N | 18E | | 16.80 | 16.80 | 0.00 | AFA | | | R |
| 83074 | 091 N19 E18 08CADD1 | PER | QM | VERDI SPRINGS LLC | NE | SW | 8 | 19N | 18E | | 724.00 | 724.00 | 0.00 | AFA | | | R |
| 83986 | 091 N19 E18 16AAAC1 | PER | MUN | TMWA | NE | NE | 16 | 19N | 18E | | 2.89 | | 0.00 | AFA | Y | Footnote 9 | R |
| 83987 | 091 N19 E18 16AAAC1 | PER | MUN | TMWA | NE | NE | 16 | 19N | 18E | | 1.00 | | 0.00 | AFA | Y | Footnote 9 | R |
| 83988 | 091 N19 E18 16AAAC1 | PER | MUN | WASHOE COUNTY | NE | NE | 16 | 19N | 18E | | 6.14 | | 0.00 | AFA | Y | Footnote 9 | R |
| 83989 | 091 N19 E18 16AAAC1 | PER | MUN | TMWA | NE | NE | 16 | 19N | 18E | | 6.00 | | 0.00 | AFA | Y | Footnote 9 | R |
| V03021 | | VST | COM | FERRONI, KAREN TRUSTEE | NE | NE | 18 | 19N | 18E | | 0.00 | 0.00 | 0.00 | AFA | | | D |
| V03034 | 091 N19 E18 14BDBD1 | VST | STK | BROWN, ARROYO | SW | NW | 14 | 19N | 18E | | 119.47 | 119.47 | 0.00 | AFA | | | E |
| V03035 | | VST | IRR | BROWN, JACKSIC | SW | NW | 14 | 19N | 18E | 2.00 | 8.00 | 8.00 | 0.00 | AFA | | | E |

| TRUCKEE CANYON WATER YEAR 2018 | | | | | | | | | | | | | | | | | | |
|---|---------------------|--------|-----|---------------------------|----|-----|-----|-----|-----|------------|-----------|----------|-----------|-------|----------|-----------------|--------|--|
| 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 | UNITS | SUPP SRC | SUPP GW APP NO. | METHOD | |
| V04620 | 091 N19 E18 17BBAD1 | VST | COM | DE DEMONICO, MICHAEL | NW | NW | 17 | 19N | 18E | | 0.00 | 0.00 | 0.00 | AFA | | | E | |
| V05664 | 091 N19 E18 17BAAB2 | VST | COM | HIGHFIELD, GLEN R. | NE | NW | 17 | 19N | 18E | | 15.29 | | 9.76 | AFA | Y | Footnote 6 | E | |
| V09309 | 091 N19 E18 17AADD1 | VST | QM | MIDDAGH, KAREN L. | SE | NE | 17 | 19N | 18E | | 0.00 | 0.00 | 0.00 | AFA | | | E | |
| V09354 | | VST | COM | PIERCZYK, MICHAEL W. | NW | NW | 17 | 19N | 18E | | 5.00 | 5.00 | 0.00 | AFA | | | E | |
| V09612 | 091 N19 E18 14CCCA1 | VST | IND | TMWA | SW | SW | 14 | 19N | 18E | | 0.25 | 0.25 | 0.25 | AFA | | | R | |
| V10762 | | VST | COM | RIVERBELLE PROPERTIES LLC | NW | NW | 17 | 19N | 18E | | 0.00 | 0.00 | 24.20 | AFA | | | E | |

Footnotes:

1. The total combined duty of water under Permits 20302 and 20302 shall not exceed 144.24 acre-feet annually.
2. The total combined duty of water under Permits 22524 and 22525 shall not exceed 11.64 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 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 Permits 56810, 56811 and V05664 shall not exceed 15.29 acre-feet annually.
7. The total combined duty of water under Permits 36837 and 36991 shall not exceed 10.10 acre-feet annually.
8. The total combined duty of water under Permits 49011A01, 65966, 65967, 68695 and 75297 shall not exceed 102.55 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.

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

| TRUCKEE CANYON WATER YEAR 2018 GROUNDWATER PUMPAGE BY POINT OF DIVERSION | | | | | |
|---|---|---------|---|----------------|----------------|
| SITE NAME | PERMIT NO. | MOU | OWNER OF RECORD | DUTY (AF) 2018 | DUTY USED 2018 |
| 091 N19 E18 02CDCB1 | 67235, 76481 | MUN, QM | SOMERSETT LLC,SOMERSETT OWNERS ASSOCIATION | 216.01 | 116.01 |
| 091 N19 E18 07DACA1 | 49067 | QM | ESTATE OF HERBERT KRONISH | 75.96 | 75.96 |
| 091 N19 E18 07DBDB1 | 65011 | OTH | VERDI CEMETERY ASSOCIATION | 0.88 | 0.88 |
| 091 N19 E18 07DDAA1 | 47351 | QM | WASHOE COUNTY | 2.24 | 2.24 |
| 091 N19 E18 07DDCD1 | 46998 | QM | WASHOE COUNTY | 3.36 | 3.36 |
| 091 N19 E18 07DDDC1 | 47611 | QM | WASHOE COUNTY | 3.36 | 3.36 |
| 091 N19 E18 07DDDD1 | 47171 | QM | WASHOE COUNTY | 1.12 | 1.12 |
| 091 N19 E18 08CADD1 | 83074 | QM | VERDI SPRINGS LLC | 724.00 | 0.00 |
| 091 N19 E18 08CCAC1 | 49790 | MUN | WASHOE COUNTY SCHOOL DISTRICT | 144.24 | 0.00 |
| 091 N19 E18 08CCCA1 | 20302 | OTH | WASHOE COUNTY SCHOOL DISTRICT | 19.58 | 19.58 |
| 091 N19 E18 08CDAB1 | 82484 | QM | JAMES R. AND SUSAN M. DAVENPORT FAMILY TRUST DATED JULY 15, 2004 | 16.80 | 0.00 |
| 091 N19 E18 08DBDA1 | 68897 | QM | FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH | 38.00 | 0.00 |
| 091 N19 E18 08DCDC1 | 27186 | COM | HARKER & HARKER | 25.53 | 25.18 |
| 091 N19 E18 09CAAC1 | 67697 | QM | FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH | 40.00 | 38.00 |
| 091 N19 E18 09CCBB1 | 45241 | QM | FARMERS AND MERCHANTS TRUST COMPANY OF LONG BEACH | 2.00 | 2.00 |
| 091 N19 E18 09DCBC1 | 43293 | QM | SUREBREC HOLDINGS, LLC, A NEVADA LIMITED LIABILITY COMPANY | 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 |
| 091 N19 E18 10CDBB1 | 70614 | MUN | SOMERSETT OWNERS ASSOCIATION | 66.01 | 0.00 |
| 091 N19 E18 12BBCC1 | 67236 | MUN | SOMERSETT OWNERS ASSOCIATION | 116.01 | 0.00 |
| 091 N19 E18 14BDBD1 | V03034 | STK | BROWN, ARROYO | 119.47 | 0.00 |
| 091 N19 E18 14CABD1 | 49301 | COM | MOGUL ENTERPRISES | 0.74 | 0.74 |
| 091 N19 E18 14CCCA1 | V09612 | IND | TMWA | 0.25 | 0.25 |
| 091 N19 E18 15CBCC1 | 33050 | IRR | BELLI, JEANETTE AND M.L. | 55.33 | 28.04 |
| 091 N19 E18 15DCBC1 | 21764 | STK | MOGUL 1, LLC | 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,WASHOE COUNTY | 293.12 | 0.00 |
| 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) | 886.86 | 100.00 |
| 091 N19 E18 16BCCD1 | 66262, 66263, 66264 | QM | BT SOUTH, LLC | 136.98 | 46.03 |
| 091 N19 E18 16CDBB1 | 44594 | QM | BT SOUTH, LLC (20.991 AFA), SJP RENO PROPERTY LLC (10.709 AFA) | 31.70 | 31.70 |
| 091 N19 E18 16CADD1 | 36512 | QM | BT SOUTH, LLC (1.39 AFA), SJP RENO PROPERTY, LLC (0.709 AFA) | 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 |
| 091 N19 E18 17AADD1 | V09309 | QM | MIDDAGH, KAREN L. | 0.00 | 0.00 |
| 091 N19 E18 17ABAA1 | 35112 | QM | PETERSON, LUCILLE L. | 8.38 | 0.00 |

| TRUCKEE CANYON WATER YEAR 2018 GROUNDWATER PUMPAGE BY POINT OF DIVERSION | | | | | |
|---|---|---------|---|--------|-------|
| 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) | 886.86 | 0.00 |
| 091 N19 E18 17BAAB1 | 56810 | QM | HIGHFIELD, GLEN R. | 3.90 | 3.90 |
| 091 N19 E18 17BAAB2 | 56811,V05664 | QM, COM | HIGHFIELD, GLEN R. | 16.92 | 11.39 |
| 091 N19 E18 17BABA1 | 45419 | QM | BEYERS, SHARRON LEE AND IRENE CUSICK | 2.24 | 2.24 |
| 091 N19 E18 17BABB1 | 44110 | COM | BELL TELEPHONE COMPANY OF NEVADA | 0.03 | 0.03 |
| 091 N19 E18 17BBAD1 | 72898,V04620 | COM | PIERCZYK, MICHAEL W.,DE DEMONICO, MICHAEL | 5.00 | 3.00 |
| 091 N19 E18 17BBCB1 | 47000 | QM | WASHOE COUNTY | 3.36 | 3.36 |
| 091 N19 E18 18AAAA1 | 49587 | QM | WASHOE COUNTY | 3.36 | 3.36 |
| 091 N19 E18 18AAAD1 | 34591 | QM | WASHOE COUNTY | 2.24 | 2.24 |
| 091 N19 E18 18AABD1 | 47787 | QM | WASHOE COUNTY | 2.24 | 2.24 |
| 091 N19 E18 18AADC1 | 47683 | QM | WASHOE COUNTY | 2.24 | 2.24 |
| 091 N19 E18 18AADD1 | 49068, 49586 | QM | WASHOE COUNTY | 3.36 | 3.36 |
| 091 N19 E18 18ADAB1 | 49069 | QM | WASHOE COUNTY | 2.24 | 2.24 |
| 091 N19 E18 18ADAB2 | 49588 | QM | WASHOE COUNTY | 2.24 | 2.24 |
| 091 N19 E18 18ADAC1 | 56745, 58928 | REC, QM | WASHOE COUNTY,DE PAOLI, KEVIN AND MAUREEN | 10.58 | 2.50 |
| 091 N19 E18 18ADDB1 | 49589 | QM | WASHOE COUNTY | 6.72 | 6.72 |
| 091 N19 E18 19ABAD1 | 22524 | IRR | OBEC HOLDINGS LLC | 11.64 | 0.00 |
| 091 N19 E18 19ABAD2 | 22525 | IRR | OBEC HOLDINGS LLC | 11.64 | 0.00 |
| 091 N19 E18 19ABBB1 | 36991, 63454 | QM | WASHOE COUNTY,RENO SPARKS INDIAN COLONY | 15.10 | 1.00 |
| 091 N19 E18 19ABBD1 | 36837 | QM | WASHOE COUNTY | 10.10 | 0.00 |
| 091 N19 E18 19ABCD1 | 49011A01, 65966, 65967, 65969, 68695, 75297 | COM, QM | STREMMEL CAPITAL GROUP, LLC | 102.54 | 59.28 |
| 091 N19 E18 19DBDC1 | 46850 | COM | EXIT 1, LLC | 1.37 | 1.37 |
| 091 N19 E18 19DCAA1 | 59607 | QM | BADER, GARY D. AND LETA KAYE | 12.12 | 0.00 |
| 091 N19 E18 19DCBD1 | 65113 | DOM | THE MICHAEL A. STEEVES AND DEBRA L. KING-STEEVES TRUST | 4.04 | 4.04 |
| 091 N19 E18 22BAAA1 | 45176 | QM | MOGUL 1, LLC | 2.24 | 2.24 |
| 091 N19 E18 22BABA1 | 63269 | DOM | HOUSE, GEOFFERY H.S. & ALICE C. | 4.04 | 4.04 |
| | V03021 | COM | FERRONI, KAREN TRUSTEE | 0.00 | 0.00 |
| | V03035 | IRR | BROWN, JACKSIC | 8.00 | 0.00 |
| | V09354 | COM | PIERCZYK, MICHAEL W. | 5.00 | 0.00 |
| | V10762 | COM | RIVERBELLE PROPERTIES LLC | 0.00 | 24.20 |