

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

ADAM SULLIVAN, P.E.
STATE ENGINEER



PLEASANT VALLEY
HYDROGRAPHIC BASIN 6-088

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2022

Prepared by: Melissa M. Marr

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ABSTRACT

This inventory presents the status and pumpage of all permitted, certificated, claims of vested groundwater rights, and exempt domestic wells located within Pleasant Valley, Hydrographic Basin 6-088, for the water year 2022 (October 1, 2021 through September 30, 2022). Also included for summary purposes are 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 2022, the committed groundwater resource totaled 7,462 acre-feet, with estimated pumpage of **2,630 acre-feet**. This includes an estimated 739 acre-feet pumped from domestic wells.

Quasi-municipal was the largest manner of use within the basin. For water year 2022, pumpage for quasi-municipal water use totaled 1,191 acre-feet, with appropriations totaling 1,974 acre-feet. The second largest category of use was pumping by domestic wells, estimated at 739 acre-feet.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	088, REGION 6
HYDROGRAPHIC BASIN NAME	PLEASANT VALLEY
COUNTIES	WASHOE
MAJOR COMMUNITIES	PLEASANT VALLEY
DESIGNATED	YES
DENIALS BASED UPON WATER AVAILABILITY	ALL USES
GROUNDWATER LEVEL MEASUREMENTS	NDWR, USGS
PUMPAGE INVENTORY, ACRE-FEET IN 2022	2,630 ¹

STATE ENGINEER'S ORDERS

NO. 709 – DESIGNATION

DATE: MARCH 1, 1978

NO. 1155 – DOMESTIC WELL CREDIT

DATE: SEPTEMBER 23, 1999

COMMITTED GROUNDWATER RESOURCE: 7,462 ACRE-FEET ^{2,3}		DATE: OCTOBER 2022
COMMERCIAL 352	DOMESTIC 1,478	IRRIGATION 627
MUNICIPAL 2,949	OTHER 78	QUASI-MUNICIPAL 1,974
RECREATION 0 ⁴	STOCKWATER 3	

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

² Committed groundwater resource data are accurate as of the date listed, excluding 7,964 acre-feet of permitted geothermal rights. 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. The committed domestic water resource is considered to be 2 acre-feet per domestic well and is based on the number of domestic wells (exempt and permitted) in the NDWR Well Log Database.

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

⁴ Commitments for recreation purposes are accounted for under the quasi-municipal manner of use due to the supplemental nature of the permits.

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), and to estimate the amount of groundwater pumped within Pleasant Valley during water year 2022. This report estimates the amount of groundwater pumped under the permits and certificates issued by the State Engineer, claims of vested right, and the amount pumped by exempt domestic wells within the basin.

DESCRIPTION OF THE STUDY AREA

Pleasant Valley is located in northwest Nevada, occupying approximately 39 square miles within Washoe County (Figure 1). Pleasant Valley is bounded on the north by the Steamboat Hills, on the east by the Virginia Range, and on the west by the Carson Range of the Sierra Nevada. The adjacent hydrographic basins are Truckee Meadows (6-087) to the north and east, Truckee Canyon Segment (6-091) to the west, and Washoe Valley (6-089) to the south. The Pleasant Valley boundary is as described by Designation Order 709, issued by the Nevada State Engineer on March 1, 1978.

The dominant hydrologic feature in Pleasant Valley is Steamboat Creek. The stream originates from Washoe Lake, flows north to Little Washoe Lake and continues north through Pleasant Valley, eventually discharging to the Truckee River. Jones and Galena Creeks originate in the Carson Range and flow into Steamboat Creek within the valley. The U.S. Geological Survey (USGS) operates a stream flow gaging station on Steamboat Creek (USGS site #[10349300](#)). Data for this and other gaging stations are available from the USGS website at <http://nevada.usgs.gov>.

Geothermal resources are found within the northwestern portion of the Pleasant Valley basin. In 2022, there were 7,964 acre-feet of permitted geothermal water. A portion of the geothermal water that is produced within the basin is reinjected.

GROUNDWATER LEVELS

Depths to groundwater are measured in various groundwater basins in Nevada (Figure 2). Groundwater level data collected by and reported to NDWR can be found here: <http://water.nv.gov/WaterLevelData.aspx>. NDWR also maintains a mapping application for these groundwater level data: <https://tinyurl.com/WLDashboard>. Additional groundwater level data collected by the USGS at various locations across the state 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 volume of groundwater pumped in the basin:

- Where totalizing meters were in place, meter readings were taken by NDWR staff or reported by the permittee. Readings are compared with previous data, if available; reported pumpage totals may be verified by staff.
- 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, 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 domestic wells (exempt and permitted) in the basin was determined by a query of the NDWR Well Log Database. The amount of water pumped by domestic wells is estimated to be 1 acre-foot per well in Pleasant Valley.

TABLES

Table 1. Pleasant Valley historical pumpage (acre-feet) by reporting year.

YEAR	COM	DOM	IRR	MUN	OTH	QM	REC	STK	TOTAL
2018	19	716	54	587	73	782	0	0.19	2,230
2019	20	725	46	551	73	807	12	0.26	2,234
2020	12	732	56	607	73	1,127	171	0.26	2,779
2021	12	740	144	586	73	804	32	1	2,391
2022	14	739	225	385	73	1,191	0	3	2,630

NDWR also maintains a [mapping application](#) for displaying historical pumpage data by basin.

FIGURES

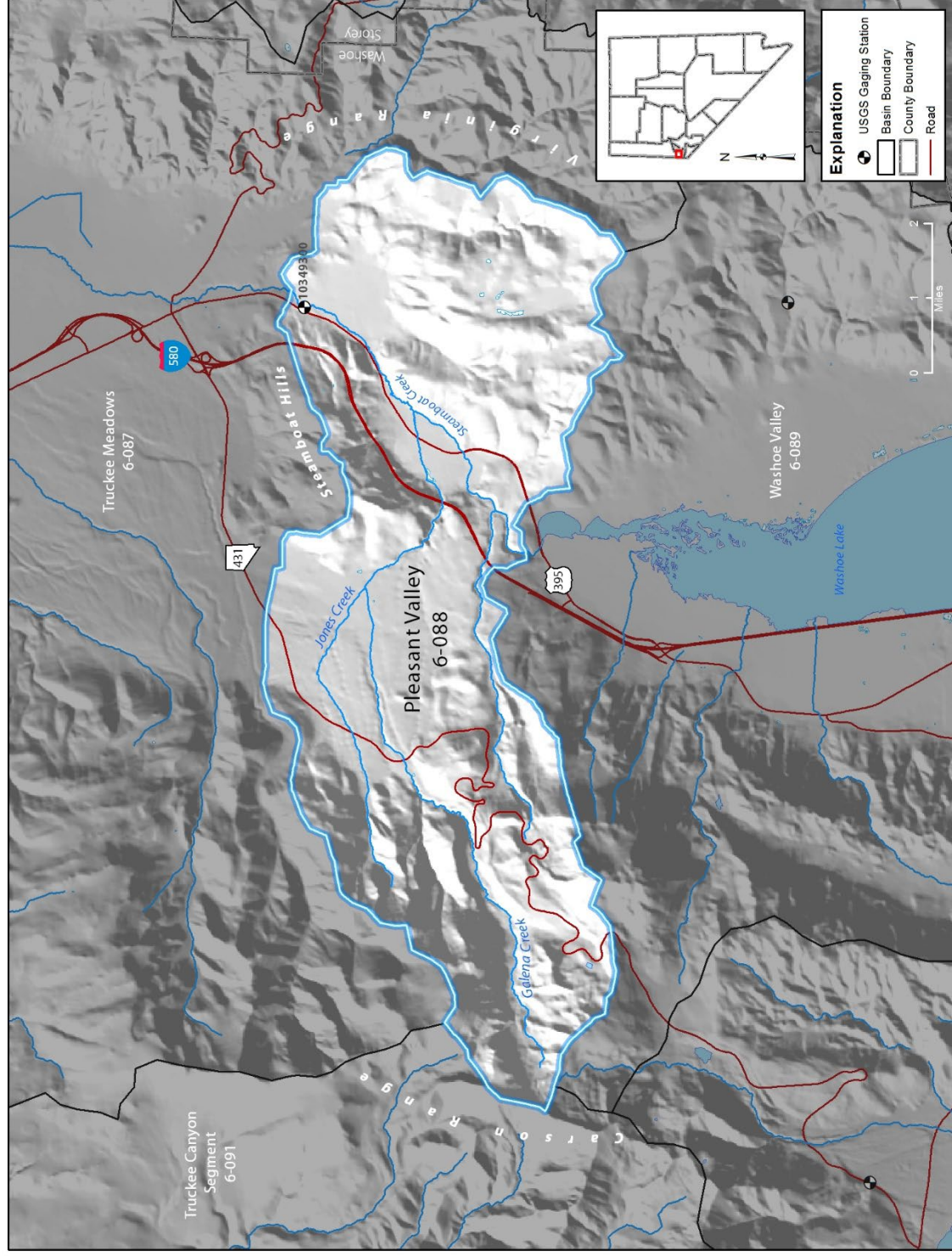


Figure 1. Physiographic map of Pleasant Valley (Hydrographic Basin 6-088).



Figure 2. Pleasant Valley groundwater level measurement sites.

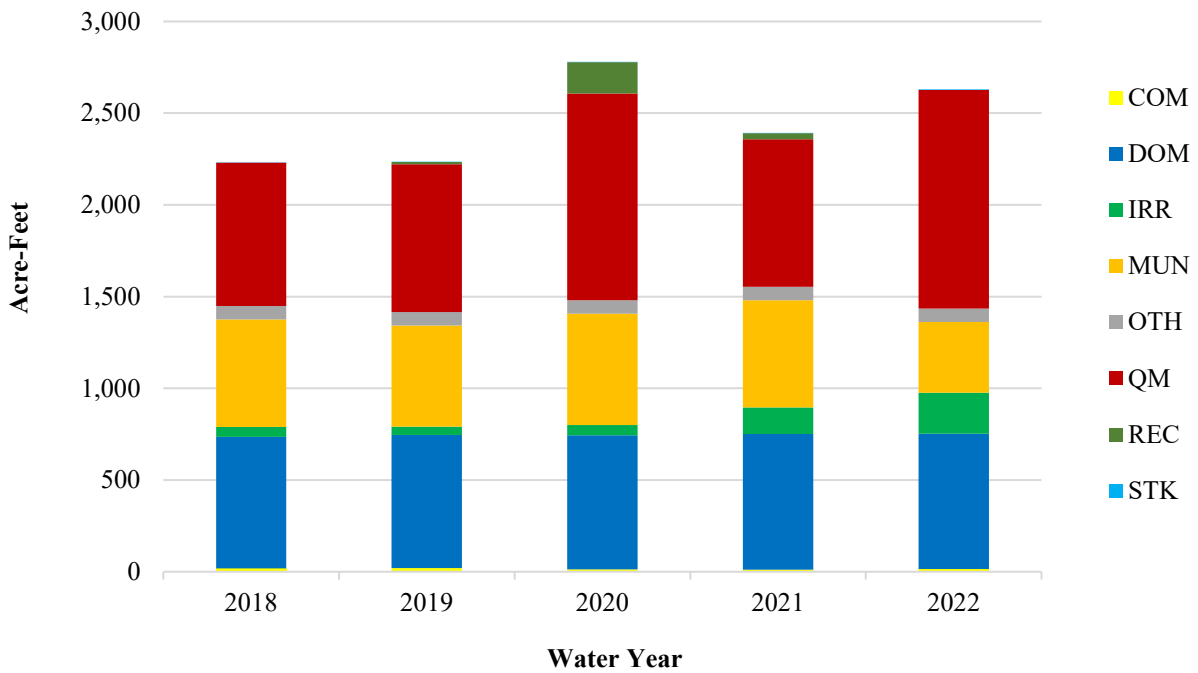


Figure 3. Pleasant Valley historical pumpage by manner of use.

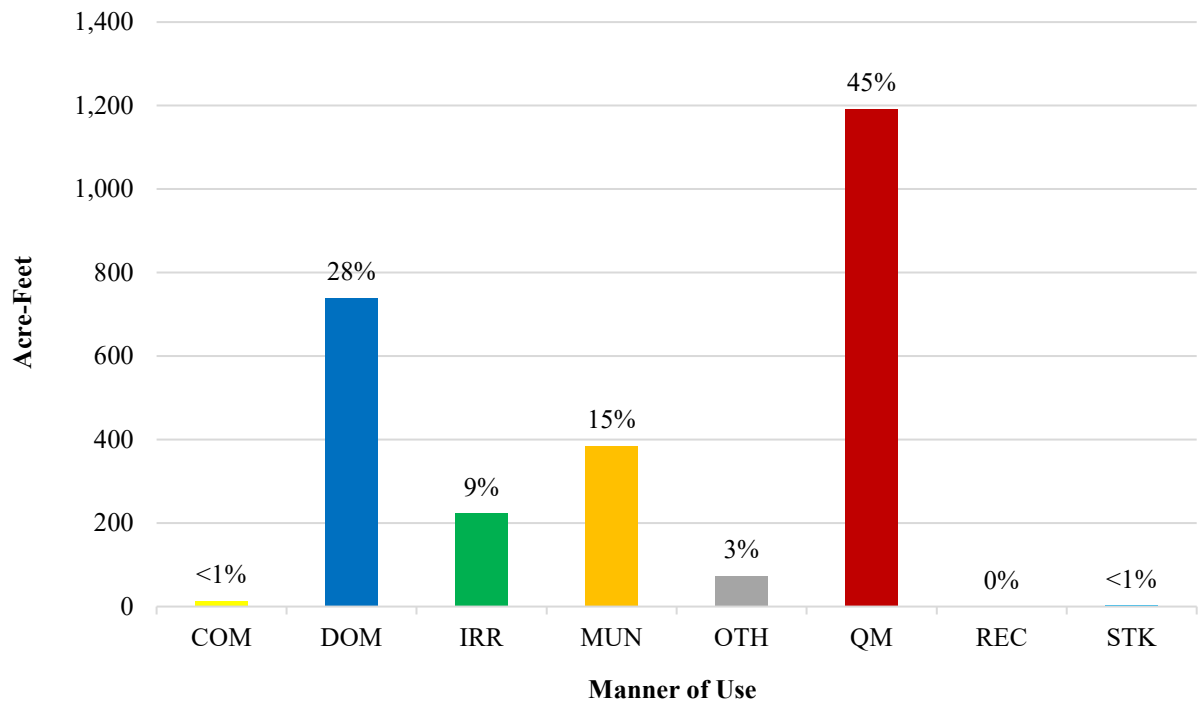


Figure 4. Percentage of 2022 groundwater pumpage by manner of use.

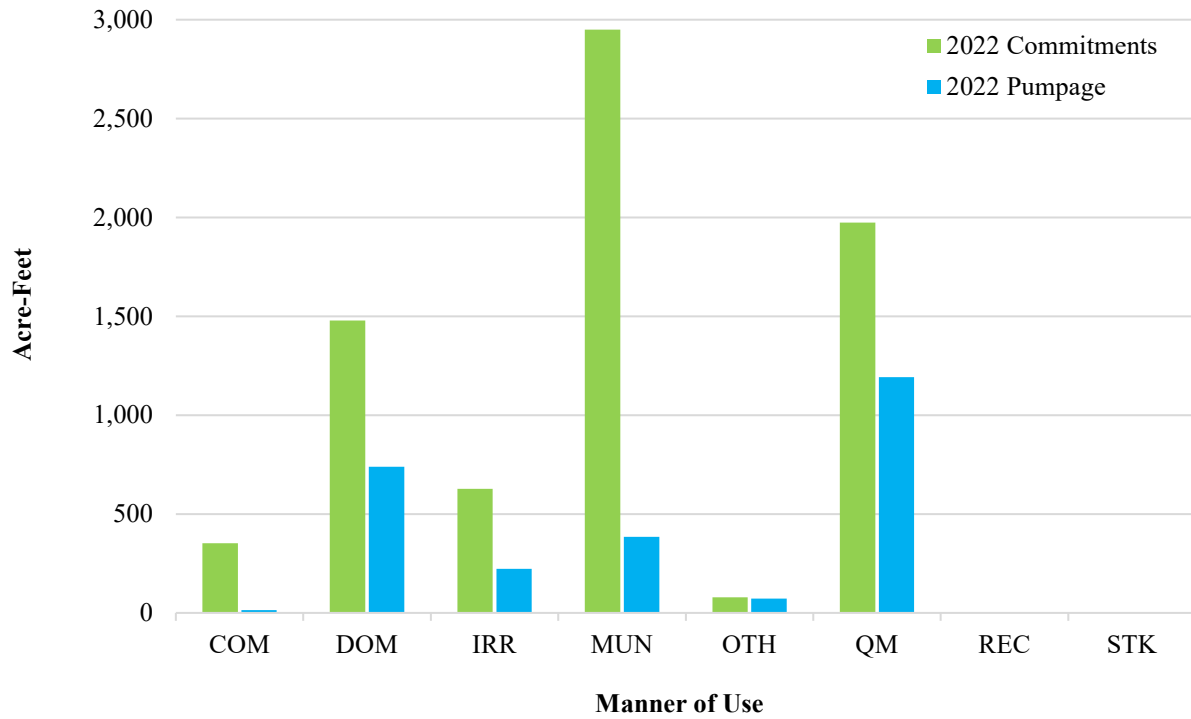


Figure 5. Comparison between 2022 groundwater commitments and estimated pumpage.

**APPENDIX A. PLEASANT VALLEY 2022 GROUNDWATER PUMPAGE BY
APPLICATION NUMBER**

EXPLANATION OF COLUMN HEADINGS FOR GROUNDWATER PUMPAGE BY APPLICATION NUMBER

APP NO.	The file number of the permit, certificate, or vested claim of 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 as defined by the permit, certificate, or claim of vested right. One acre-foot equals 325,851 gallons.		
SUPP ADJ	The total combined duty of a permit group. The permits may have a supplemental relationship or be located at the same point of diversion.		
DUTY USED	The amount of water used during the reporting period, in acre-feet, as determined by review of records and/or field investigation. A “-“ in this field indicates that pumpage was attributed to another permit that may be supplemental or located at the same site.		
UNIT	Acre-feet annually (AFA) and acre-feet seasonally (AFS). AFS limits water usage to certain months of the year.		
TCD GROUP	The file number(s) of any associated groundwater appropriations.		
METHOD	The method used to estimate pumpage, or duty used. D – Duty E – Estimated use based on field investigation observations H – Estimated using power meter data or hours of pump operation M – Meter reading on a totalizing meter N – Net Irrigation Water Requirement 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

088 PLEASANT VALLEY

WATER YEAR 2022 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	TCD GROUP	METHOD
11533	088 N17 E20 07CADD1	3069	IRR	GAMBONI CON CO INC.; D & J KITTIS; JENNIFER JOANNA DAVIS 2001 REVOCABLE TRUST DATED JULY 20, 2001; TOMOTHY F. AND PAMELA L. HOLT				NE	SW	7	17N	20E	12.42	49.67	49.67	2.99	AFA		N
19098	088 N17 E19 19DBB1	6630	QM	MT. ROSE DEVELOPMENT COMPANY				NW	SE	19	17N	19E		4.82	4.82	4.82	AFA		D
20857	088 N17 E19 09CBC1	5838	OTH	WASHOE COUNTY				NW	SW	9	17N	19E		72.40	72.40	72.40	AFA		D
22002	088 N17 E20 07CADA1	6270	QM	WASHOE COUNTY SCHOOL DISTRICT				NE	SW	7	17N	20E		723.97	723.97	15.00	AFA		E
22087	088 N17 E19 11ACCC1	6376	DOM	CLARK, HAROLD B.				SW	NE	11	17N	19E		1.60	1.60	1.60	AFA		D
22474	088 N17 E20 07AABB1	6801	IRR	1995 TENNEY FAMILY TRUST DATED OCT. 27, 1995				NE	NE	7	17N	20E	0.63	2.50	2.50	0.00	AFA		E
28895	088 N17 E20 09BBAC1	9644	QM	STEAMBOAT COURT WATER USERS ASSOC.				NW	NW	9	17N	20E		2.03	2.03	1.53	AFA		M
28896	088 N17 E20 09BBAC2	9645	QM	STEAMBOAT COURT WATER USERS ASSOC.				NW	NW	9	17N	20E		2.55	2.55	2.55	AFA		D
29419	088 N18 E19 34DCB1	9713	IRR	KUTNOCK, ROBERT & BARBARA				SW	SE	34	18N	19E	0.40	1.60	1.60	0.15	AFA		E
30434	088 N17 E19 17DCCA1	10706	QM	MT. ROSE BOWL PROPERTY OWNERS				SW	SE	17	17N	19E		8.04	20.35	6.61	AFA	57008	M
31125	088 N17 E19 11ADDA1	10004	QM	MCMILLAN, D.				SE	NE	11	17N	19E		1.14	1.14	1.14	AFA		D
31167	088 N17 E19 03BCCB1	10629	STK	WALKER, ALEXANDER S.				SW	NW	3	17N	19E		2.24	2.24	2.24	AFA		D
33371	088 N17 E19 03BBBD1	11086	QM	THE CALLAHAN RESIDENCE TRUST (UDI 1/7); BURKO, BILLY M. AND TERI L. (UDI 1/7); THE CALLAHAN TRUST (UDI 2/7); PGSF, LLC (UDI 1/7); THE MULLEN TRUST (UDI 1/7); AND BALDWIN, KENNETH C. AND KEMMET, KASEY (UDI 1/7)				NW	NW	3	17N	19E		1.60	1.60	1.60	AFA		M
35147	088 N17 E19 02DAAC1	PER	QM	CALLAHAN, ROBERT AND/OR TINA (2.21 AF), GALENA RESORT COMPANY (190 AF), GUERRA, RAYMOND (3.36 AF), REDFIELD, NELL (350 AF), POORE, GEORGE AND MERLE WINBURN (73 AF), TMWA (1693.82 AF)				NE	SE	2	17N	19E		1,828.51		0.00	AFA	Footnote 1	R
35149	088 N17 E19 02DADB1	PER	QM	CALLAHAN, ROBERT AND/OR TINA (2.21 AF), GALENA RESORT COMPANY (190 AF), GUERRA, RAYMOND (3.36 AF), REDFIELD, NELL (350 AF), POORE, GEORGE AND MERLE WINBURN (73 AF), TMWA (1693.82 AF)				NE	SE	2	17N	19E		1,828.51		10.38	AFA	Footnote 1	R
35226	088 N17 E20 07CCCD1	15161	QM	TMWA				SW	SW	7	17N	20E		1.00		0.00	AFA	Footnote 2	R
35656	088 N18 E19 34DBDD1	10325	OTH	NEVADA-FORESTRY DIVISION				NW	SE	34	18N	19E		2.24	2.24	0.37	AFA		M
36089	088 N17 E19 03BCCB1	11293	IRR	WALKER, ALEXANDER S.				SW	NW	3	17N	19E	5.76	23.04	27.57	22.27	AFA	Footnote 8	N
41986	088 N17 E19 03BBDB1	12941	COM	BURKHART MANAGEMENT GROUP, LLC				NW	NW	3	17N	19E		0.89	0.89	0.29	AFA		M
45133	088 N17 E20 04BCDC1	11003	COM	TOGLIATTI, ROBERT				SW	NW	4	17N	20E		0.03	0.03	0.03	AFA		D
46958	088 N18 E19 34DCDC1	PER	QM	THE NELL J. REDFIELD TRUST (1.32 AF), TMWA (24.64 AF)				SE	SW	34	18N	19E		25.96	25.96	24.65	AFA		R
48958	088 N17 E20 05DCAB1	13846	COM	WOOD, ANGELA & DAVID L.				SW	SE	5	17N	20E		2.03	2.03	0.11	AFA		M
50380	088 N18 E20 33DCDD1	16132	QM	MONROE, R. LARRY & NANCY J.				SW	SE	33	18N	20E		3.36	3.36	-	AFA		M
50540	088 N17 E19 02DCCB1	14122	OTH	OLD GALENA LTD.				SW	SE	2	17N	19E		3.62	3.62	0.00	AFA		E
52127	088 N17 E19 03BBBD1	PER	QM	THE CALLAHAN RESIDENCE TRUST (UDI 1/7); BURKO, BILLY M. AND TERI L. (UDI 1/7); THE CALLAHAN TRUST (UDI 2/7); PGSF, LLC (UDI 1/7); THE MULLEN TRUST (UDI 1/7); AND BALDWIN, KENNETH C. AND KEMMET, KASEY (UDI 1/7)				NW	NW	3	17N	19E		4.48	4.48	2.31	AFA		M
52420	088 N17 E20 04DCDD1	14541	IRR	JENNIFER JOANNA DAVIS 2001 REVOCABLE TRUST DATED JULY 20, 2001				SW	SE	4	17N	20E	0.04	0.19	323.08	0.19	AFA	Footnote 3	D
55665	088 N17 E19 02DADB1	PER	QM	TMWA				NE	SE	2	17N	19E		13.72	13.72	13.72	AFA		R
57008	088 N17 E19 17DBCB1	15275	QM	MT. ROSE BOWL PROPERTY OWNERS WATER				NW	SE	17	17N	19E		20.35		-	AFA	30434	M
57173	088 N17 E19 03DBCB1	17115	QM	NESLER, RONALD L.				SW	SE	3	17N	19E		2.21	2.21	2.21	AFA		D
57429	088 N17 E20 18ABBC1	PER	MUN	MARION HOPKINS 2012 TRUST (6.72), THE O'SULLIVAN FAMILY TRUST DATED DECEMBER 15TH, 2003 (0.01 AFA)				NW	NE	18	17N	20E		6.73	59.73	-	AFA	Footnote 2	R
57749	088 N17 E20 18BAAB1	PER	QM	TMWA				NE	NW	18	17N	20E		100.60	720.00	N/A	AFA	Footnote 4	Z
57750	088 N17 E20 18ABBC1	PER	QM	WALKER, ALEXANDER S.				NW	NE	18	17N	20E		157.60		-	AFA	Footnote 4	R
58346	088 N17 E19 03BCCB1	15818	IRR	TMWA				SW	NW	3	17N	19E	5.22	4.53		1.59	AFA	Footnote 8	E
58496	088 N18 E20 33DCDC1	PER	QM	STEAMBOAT SPRINGS WATER WORKS, INC.				SW	SE	33	18N	20E		115.70	235.23	136.82	AFA	Footnote 5	R
58497	088 N18 E20 33DCDD1	PER	QM	STEAMBOAT SPRINGS WATER WORKS INC.				SW	SE	33	18N	20E		41.06		62.18	AFA	Footnote 5	R
58498	088 N18 E20 33DCDC2	PER	QM	STEAMBOAT SPRINGS WATER WORKS INC.				SW	SE	33	18N	20E		235.23		256.35	AFA	Footnote 5	R

**088 PLEASANT VALLEY
WATER YEAR 2022 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	TCD GROUP	METHOD
58806	088 N18 E19 34CDC1	PER	QM	TMWA	SE	SW	34	18N	19E					19.25		-	AFA	Footnote 17	R
58870	088 N17 E19 03DABC1	PER	QM	TMWA	NE	SE	3	17N	19E					107.40		100.33	AFA	Footnote 4	R
58926	088 N17 E19 03DABC1	PER	QM	TMWA	NE	SE	3	17N	19E					1,886.78		-	AFA	Footnote 1	R
59042	088 N17 E20 04CBBB1	15826	QM	1997 GENO O. & VELDAS ROSASCHI REVOCABLE TRUST	NW	SW	4	17N	20E					1.64	1.64	3.97	AFA		E
59330	088 N17 E19 10DCAD1	18687	QM	TMWA	SW	SE	10	17N	19E					88.60		113.87	AFA	Footnote 4	R
59631	088 N17 E19 14BCCB1	18687	QM	TMWA	NW	NW	14	17N	19E					88.60		121.66	AFA	Footnote 4	R
59632	088 N17 E19 14AAAA1	PER	QM	TMWA	NE	NE	14	17N	19E					88.60		N/A	AFA	Footnote 4	Z
59633	088 N17 E19 14ABBA1	PER	QM	TMWA	NW	NE	14	17N	19E					88.60		N/A	AFA	Footnote 4	Z
60710	088 N17 E19 03DABC1	PER	MUN	TMWA	NE	SE	3	17N	19E					19.25	19.25	-	AFA	Footnote 17	R
61267	088 N18 E19 35CBC1	PER	MUN	TMWA	NW	SW	35	18N	19E					103.33	942.25	77.18	AFA	Footnote 6	R
61268	088 N18 E19 35CBC1	PER	MUN	TMWA	NW	SW	35	18N	19E					130.01		-	AFA	Footnote 6	R
61269	088 N18 E19 35ACD1	PER	MUN	TMWA	NE	SW	35	18N	19E					135.00		135.00	AFA	Footnote 6	R
61270	088 N18 E19 35ACD1	PER	MUN	TMWA	NE	SW	35	18N	19E					25.62		25.62	AFA	Footnote 6	R
62269	088 N17 E19 03DABC1	PER	QM	TMWA	NE	SE	3	17N	19E					26.88	26.88	-	AFA		R
62718	088 N18 E20 33CDC1	16475	COM	ANCHOR STORAGE, LLC	SE	SW	33	18N	20E					2.38	2.38	2.96	AFA		M
62875	088 N17 E20 09BBCD1	17799	DOM	MACDONALD, KRYSTIN	NW	NW	9	17N	20E					1.00	1.00	1.00	AFA		D
63146	088 N18 E20 33DCDD1	PER	QM	FRY, HARRY C.	SW	SE	33	18N	20E					39.48	39.48	60.60	AFA	63147	R
63147	088 N18 E20 33DCD1	PER	QM	FRANK D. CAFFARATTI 1987 TRUST	SW	SE	33	18N	20E					2.00		23.12	AFA	63146	R
63147	088 N18 E20 33DCD1	PER	QM	AMSTERDAM HOLDINGS, LLC	SW	SE	33	18N	20E					2.04		23.16	AFA	63146	R
63328	088 N17 E19 03DABC1	18736	MUN	H.A.B. LIVING TRUST	SW	SE	33	18N	20E					40.00		61.12	AFA	63146	R
63329	088 N17 E19 03DABC1	PER	MUN	WASHOE COUNTY	NE	SE	3	17N	19E					0.91	0.91	0.91	AFA		R
64461	088 N17 E19 03DABC1	PER	MUN	WASHOE COUNTY	NE	NW	3	17N	19E					46.03	46.03	-	AFA		R
65090	088 N17 E20 04BACB1	18936	QM	JLC REALTY, LLC	NE	SE	3	17N	19E					2.24	2.24	-	AFA		R
65364	088 N17 E19 03DBDC1	PER	MUN	GUERRA, RAYMOND (3.36 AF), TMWA (1827.17 AF)	NE	NW	4	17N	20E					4.00	4.00	0.08	AFA		M
65507	088 N17 E19 13BBB1	PER	COM	DGD DEVELOPMENT LIMITED PARTNERSHIP	NW	SE	3	17N	19E					1,830.53	1,878.71	112.98	AFA	Footnote 1	R
65508	088 N17 E19 13BBBD1	PER	COM	DGD DEVEL LTD PARTNERSHIP (44.73 AF), GOLDEN R HEART (203.14 AF)	NW	NW	13	17N	19E					87.93	87.93	N/A	AFA		Z
65958	088 N18 E19 35CBC1	PER	MUN	TMWA	NW	SW	35	18N	19E					31.67	248.87	N/A	AFA		Z
65959	088 N18 E19 35CBC1	PER	MUN	TMWA	NW	SW	35	18N	19E					31.67		-	AFA	Footnote 6	R
65960	088 N18 E19 35ACD1	PER	MUN	TMWA	NE	SW	35	18N	19E					31.57		-	AFA	Footnote 6	R
65961	088 N18 E19 35ACD1	PER	MUN	TMWA	NE	SW	35	18N	19E					31.67		-	AFA	Footnote 6	R
66450	088 N17 E20 03CCBA1	17800	IRR	HOLLY CLAVELL-HEADLAND TRUST	SW	SW	3	17N	20E				0.83	3.32	3.32	3.32	AFA		D
66451	088 N17 E20 03CCBA1	17801	COM	HOLLY CLAVELL-HEADLAND TRUST	SW	SW	3	17N	20E					1.57	1.57	1.57	AFA		D
66453	088 N17 E20 04DABB1	18251	COM	BUCK, ANNE E.	NE	SE	4	17N	20E					0.80	0.80	0.80	AFA		M
66654	088 N18 E19 35CBC1	PER	QM	TMWA	NW	SW	35	18N	19E					63.00		-	AFA	Footnote 6	R
66655	088 N18 E19 35ACD1	PER	QM	TMWA	NE	SW	35	18N	19E					11.00		-	AFA	Footnote 6	R
67368	088 N17 E19 11BABA1	PER	MUN	PREGO REAL ESTATE, LLC (6.24 AF), TMWA (456.52 AF)	NE	NW	11	17N	19E					462.76		N/A	AFA	Footnote 1	Z
67369	088 N17 E19 11CAAB1	PER	MUN	PREGO REAL ESTATE, LLC (6.24 AF), TMWA (456.52 AF)	NE	SW	11	17N	19E					462.76		N/A	AFA	Footnote 1	Z
67914	088 N17 E19 19CCCA1	17118	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E					31.67	131.67	131.67	AFA	Footnote 7	E
67915	088 N17 E19 19CCCA1	17119	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E					4.99		-	AFA	Footnote 7	E
67916	088 N17 E19 19CCCA1	17120	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E					100.00		-	AFA	Footnote 7	E
67917	088 N17 E19 19CCCA1	17121	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E					31.67		-	AFA	Footnote 7	E
67918	088 N17 E19 19CCCA1	17122	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E					31.67		-	AFA	Footnote 7	E
70261	088 N18 E19 35CBC1	PER	MUN	TMWA	NW	SW	35	18N	19E					103.33		-	AFA	Footnote 6	R
70262	088 N18 E19 35ACD1	PER	MUN	TMWA	NE	SW	35	18N	19E					103.33		-	AFA	Footnote 6	R
70496	088 N17 E20 04BACD1	17819	COM	BORDIGIONI TRUST AGREEMENT 3/18/1997	NE	NW	4	17N	20E					1.88	1.88	0.19	AFA		E
70668	088 N17 E20 07DBAC1	18087	COM	COLI-DAMONTE, LLC	NW	SE	7	17N	20E					2.00	2.00	3.62	AFA		M
73236	088 N17 E20 04DBAB1	17929	STK	ROLL/CHAIKEN TRUST DATED 6/21/2016	NW	SE	4	17N	20E					0.67	0.67	0.67	AFA		M
76316	088 N17 E20 04ACCB1	17791	IRR	ROLL/CHAIKEN TRUST DATED 6/21/2016	SW	NE	4	17N	20E				8.26	33.02	33.02	22.71	AFA	Footnote 11	M

088 PLEASANT VALLEY

WATER YEAR 2022 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	TCD GROUP	METHOD
76539	088 N17 E20 04DBAD1	PER	IRR	ROLL/CHAIKEN TRUST DATED 6/21/2016	NW	SE	4	17N	20E	7.02	31.58	31.58	7.39	AFA	Footnote 12	M
76651	088 N18 E19 35CBCC1	PER	QM	TMWA	NW	SW	35	18N	19E		5.82		-	AFA	Footnote 6	R
77677	088 N17 E20 04AACAI	PER	IRR	FLOYD FAMILY TRUST DATED MARCH 13, 2014	NE	NE	4	17N	20E	1.50	6.00	6.00	3.02	AFA	Footnote 13	M
77729	088 N18 E19 35ACD1	PER	MUN	TMWA	NE	SW	35	18N	19E		31.67		-	AFA	Footnote 6	R
79024	088 N17 E19 19CCCA1	19859	QM	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		31.67		-	AFA	Footnote 7	E
79858	088 N17 E20 04AADAI	PER	IRR	THE RED DOG TRUST, DATED FEBRUARY 22, 2016	NE	NE	4	17N	20E	3.50	14.00	14.00	9.99	AFA	Footnote 14	M
81356	088 N17 E20 03CBCA1	PER	COM	MSJ PROPERTIES, LLC	NW	SW	3	17N	20E		0.93	0.93	1.96	AFA		M
81357	088 N17 E20 03CBCA1	PER	IRR	MSJ PROPERTIES, LLC	NW	SW	3	17N	20E	1.00	4.00	4.00	5.02	AFA	Footnote 15	M
82835	088 N17 E20 07CCBB1	PER	MUN	MARION HOPKINS 2012 TRUST (6.73 AF), KIRSTEN SORESENSEN (1.50 AF), OSULLIVAN FAMILY TRUST (3.99 AF) TMWA (49.22 AF)	SW	SW	7	17N	20E		57.99		0.00	AFA	Footnote 2	R
83571	088 N17 E20 04DBAB1	PER	QM	ROLL/CHAIKEN TRUST DATED 6/21/2016	NW	SE	4	17N	20E		2.00	2.00	-	AFA		M
83594	088 N17 E20 04ADDC1	PER	IRR	SCHULER, MICHAEL AND ELIZABETH	SE	NE	4	17N	20E	3.75	15.00	15.00	0.99	AFA	Footnote 16	M
83682	088 N17 E20 03CCBD1	PER	QM	WELCH, JAMES H.	SW	SW	3	17N	20E		0.28	0.28	1.00	AFA		M
83683	088 N17 E20 03CCBD1	PER	QM	WELCH, JAMES H.	SW	SW	3	17N	20E		3.72	3.72	4.45	AFA		M
84316	088 N17 E19 10DADC1	21903	QM	SCHULTZ INTERVIVOS TRUST	NE	SE	10	17N	19E		1.00	1.00	0.90	AFA		M
84317	088 N17 E20 04ADDC1	PER	IRR	MICHAEL AND BETH SCHULER REV. FAM. TRUST	SE	NE	4	17N	20E	8.75	35.00	35.00	-	AFA		M
85097	088 N18 E19 34DCCB1	21493	QM	MACLEAN LIVING TRUST	SW	SE	34	18N	19E		0.80	0.80	1.94	AFA		M
85666	088 N17 E20 04AAD1	PER	IRR	CLAY TRUST	NE	NE	4	17N	19E	3.00	12.00	12.00	8.42	AFA		M
85945	088 N17 E19 19CCCA1	PER	REC	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		131.67		-	AFA	Footnote 7	E
85946	088 N17 E19 19CCCA2	PER	REC	MT. ROSE DEVELOPMENT COMPANY	SW	SW	19	17N	19E		131.67		-	AFA	Footnote 7	E
86544	088 N17 E20 04CDD1	22092	IRR	KEVIN AND DEBRA QUILICI FAMILY TRUST	SE	SW	4	17N	19E	1.31	5.90	5.90	2.07	AFA		E
86630	088 N17 E20 04ABAD1	PER	IRR	GRIMES LIVING TRUST	NW	NE	4	17N	19E	1.25	5.00	5.00	1.24	AFA		M
86631	088 N17 E20 03BBCC1	PER	IRR	BRIAN AND TJ ALLMAN 2016 REV. LIVING TRUST	NW	NW	3	17N	20E	2.22	10.00	10.00	1.70	AFA		M
86632	088 N17 E20 04AABA1	PER	IRR	GRIMES LIVING TRUST	NE	NE	4	17N	20E	3.00	12.00	12.00	0.28	AFA		R
87302	088 N17 E20 04DBDB1	PER	COM	SORENSEN, KIRSTEN	NW	SE	4	17N	20E		1.50	1.50	0.75	AFA	87303	E
87303	088 N17 E20 04DBDB1	PER	COM	SORENSEN, KIRSTEN	NW	SE	4	17N	20E		1.50		0.75	AFA	87302	E
88303	088 N18 E20 33CDDC1	PER	COM	CHILDERS, MICHAEL AND NORMA	SE	SW	33	18N	20E		0.76	0.76	1.15	AFA		M
89102	088 N17 E19 19ACDB1	PER	REC	MT. ROSE DEVELOPMENT COMPANY	SW	NE	19	17N	19E		386.67		N/A	AFA	Footnote 7	Z
89103	088 N17 E19 19AADC1	PER	REC	MT. ROSE DEVELOPMENT COMPANY	NE	NE	19	17N	19E		386.67		N/A	AFA	Footnote 7	Z
89794	088 N17 E20 04DACA1	PER	IRR	AMSTERDAM HOLDINGS, LLC	NE	SE	4	17N	20E	1.01	4.04	4.04	1.41	AFA		E
90810	088 N17 E20 04ABDA1	PER	COM	BAUER, BENNETT J. AND DARCY O.	NW	NE	4	17N	20E		0.50	0.50	N/A	AFA		Z
91218	088 N17 E20 03CBAB1	PER	IRR	OSULLIVAN FAMILY TRUST	NW	SW	3	17N	20E	1.00	4.00	4.00	N/A	AFA		Z
91611	088 N17 E20 04DDBC1	PER	IRR	GOLDEN R HEART RANCH, LLC SERIES F	SE	SE	4	17N	20E	0.51	2.02	2.02	N/A	AFA		Z
91661	088 N17 E20 07AABB1	PER	IRR	GRCS PROPERTIES, LLC	NE	SE	4	17N	20E	1.54	6.16	6.16	3.90	AFA		M
91898	088 N17 E20 03CBCA1	PER	IRR	MSJ PROPERTIES, LLC	NE	SW	3	17N	20E	1.00	4.00	4.00	N/A	AFA		Z
30382A02	088 N17 E19 03BBBC1	14632	QM	SWAN, CHERYL K. & H. RANDALL	NW	NW	3	17N	19E		1.14	1.14	1.74	AFA		E
52421A02	088 N17 E20 04DABA1	14630	IRR	AMSTERDAM HOLDINGS, LLC	NE	SE	4	17N	20E	10.94	43.77		15.32	AFA	Footnotes 3, 9	E
52422A02	088 N17 E20 04DCDD1	14631	IRR	WILLOMONTE LAND AND LIVESTOCK	SW	SE	4	17N	20E	69.78	279.12		97.69	AFA	Footnotes 3, 9	E
57429A01	088 N17 E20 18ABBC1	21006	MUN	TMWA	NW	NE	18	17N	20E		48.76		33.51	AFA	Footnote 2	R
V04810	088 N18 E20 33DCCD1	VST	IRR	MONROE, LARRY R. & NANCY J.	SW	SE	33	18N	20E	4.00	16.00	16.00	13.22	AFA		M

Footnotes

- 1 Permits 35147, 35149, 58926, 65364, 67368, and 67369 have a total combined duty of 1,878.71 AFA.
- 2 Permits 35226, 57429, 82835, and 57429A01 have a total combined duty of 59.73 AFA.
- 3 Permits 52420, 52421A02, and 52422A02 have a total combined duty of 323.082 AFA.
- 4 Permits 57749, 57750, 58870, 59330, 59631, 59632, and 59633 have a total combined duty of 720 AFA.
- 5 Permits 58496, 58497, and 58498 have a total combined duty of 235.23 AFA.

088 PLEASANT VALLEY

WATER YEAR 2022 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	TCD GROUP	METHOD
6	Permits 61267, 61268, 61269, 61270, 65958, 65960, 65961, 66654, 66655, 70261, 70262, 76651, and 77729 have a total combined duty of 942.25 AFA.															
7	Permits 67914, 67915, 67916, 67917, 67918, 79024, 85945, 85946, 89102, and 89103 have a total combined duty of 131.669 AFA.															
8	Permits 36089 and 58346 have a total combined duty of 27.57 AFA, along with being supplemental to surface water under Permits 24829 and 61792.															
9	Permit 52421A02 and 52422A02 are supplemental to surface water under Orr Ditch Decree Claims 660, 665, 666, 690, 691, 692, 693, and 694.															
10	Permit 91611 is supplemental to surface water under Orr Ditch Decree Claims 660, 666, 692, 693, and 694.															
11	Permit 76316 is supplemental to surface water under Orr Ditch Decree Claims 660, 663, and 684.															
12	Permit 76539 is supplemental to surface water under Orr Ditch Decree Claims 660, 665, and 689.															
13	Permit 77677 is supplemental to surface water under Orr Ditch Decree 660, 667, and 696.															
14	Permit 79858 is supplemental to surface water under Orr Ditch Decree 660, 667, 696.5, and 697.															
15	Permit 81357 is supplemental to surface water under Orr Ditch Decree 660, 666, 692, 693, and 694.															
16	Permit 83594 is supplemental to surface water under Orr Ditch Decree 696.5 and 697.															
17	Permits 58806 and 60710 have a total combined duty of 19.25 AFA.															

**APPENDIX B. PLEASANT VALLEY HISTORICAL PUMPAGE BY POINT OF
DIVERSION**

SITE NAME	APP NO.	MOU	OWNER OF RECORD	DUTY (AF) 2022	DUTY USED 2018	DUTY USED 2019	DUTY USED 2020	DUTY USED 2021	DUTY USED 2022
088 N17 E19 02DAAC1	35147	QM	CALLAHAN, ROBERT AND/OR TINA (2.21 AF), GALENA RESORT COMPANY (190 AF), GUERRA, RAYMOND (3.36 AF), REDFIELD, NELL (350 AF), POORE, GEORGE AND MERLE WINBURN (73 AF), TMWA (1693.82 AF)	1,828.51	0.00	0.00	0.00	0.00	0.00
088 N17 E19 02DADB1	35149, 55665	QM	CALLAHAN, ROBERT AND/OR TINA (2.21 AF), GALENA RESORT COMPANY (190 AF), GUERRA, RAYMOND (3.36 AF), REDFIELD, NELL (350 AF), POORE, GEORGE AND MERLE WINBURN (73 AF), TMWA (1693.82 AF) ; TMWA OLD GALENA LTD.	1,842.23	1.59	12.06	294.40	17.87	24.10
088 N17 E19 02DCCB1	50540	OTH	SWAN, CHERYL K. & H. RANDALL	3.62	0.00	0.00	0.00	0.00	0.00
088 N17 E19 03BBBC1	30382A02	QM	THE CALLAHAN RESIDENCE TRUST (UDI 1/7); BURKO, BILLY M. AND TERI L. (UDI 1/7); THE CALLAHAN TRUST (UDI 2/7); PGSF, LLC (UDI 1/7); THE MULLEN TRUST (UDI 1/7); AND BALDWIN, KENNETH C. AND KEMMET, KASEY (UDI 1/7)	1.14	1.17	0.57	2.52	2.14	1.74
088 N17 E19 03BBBD1	33371, 52127	QM		6.08	2.43	5.81	7.94	4.21	3.91
088 N17 E19 03BBDB1	41986	COM	BURKHART MANAGEMENT GROUP, LLC	0.89	0.12	0.18	0.22	0.89	0.29
088 N17 E19 03BCCB1	31167, 36089, 58346, 58870, 58926, 60710, 62269, 63328, 63329, 64461	STK, IRR	WALKER, ALEXANDER S.	29.81	1.16	1.61	2.91	21.02	26.10
088 N17 E19 03DABC1		QM , MUN	TMWA; WASHOE COUNTY	2,089.49	257.85	295.23	297.34	48.05	101.24
088 N17 E19 03DBDC1	65364	MUN	GUERRA, RAYMOND (3.36 AF), TMWA (1827.17 AF)	1,830.53	328.47	261.78	180.62	280.68	112.98
088 N17 E19 03DCDC1	57173	QM	NESLER, RONALD L.	2.21	2.21	2.21	2.21	2.21	2.21
088 N17 E19 09CBCC1	20857	OTH	WASHOE COUNTY	72.40	72.40	72.40	72.40	72.40	72.40
088 N17 E19 10DADC1	84316	QM	SCHULTZ INTERVIVOS TRUST	1.00	N/A	2.19	3.37	0.75	0.90
088 N17 E19 10DCAD1	59330	QM	TMWA	88.60	151.04	110.42	171.73	131.53	113.87
088 N17 E19 11ACCC1	22087	DOM	CLARK, HAROLD B.	1.60	1.60	1.60	1.60	1.60	1.60
088 N17 E19 11ADDA1	31125	QM	MC MILLAN, D.	1.14	1.14	1.14	1.14	1.14	1.14
088 N17 E19 11BABA1	67368	MUN	PREGO REAL ESTATE, LLC (6.24 AF), TMWA (456.52 AF)	462.76	N/A	N/A	N/A	N/A	N/A
088 N17 E19 11CAAB1	67369	MUN	PREGO REAL ESTATE, LLC (6.24 AF), TMWA (456.52 AF)	462.76	N/A	N/A	N/A	N/A	N/A
088 N17 E19 13BBBB1	65507	COM	DGD DEVELOPMENT LIMITED PARTNERSHIP	87.93	N/A	N/A	N/A	N/A	N/A
088 N17 E19 13BBBD1	65508	COM	DGD DEVEL LTD PARTNERSHIP (44.73 AF) , GOLDEN R HEART (203.14 AF)	248.87	0.00	N/A	N/A	N/A	N/A
088 N17 E19 14AAAA1	59632	QM	TMWA	88.60	N/A	N/A	N/A	N/A	N/A
088 N17 E19 14ABBA1	59633	QM	TMWA	88.60	N/A	N/A	N/A	N/A	N/A
088 N17 E19 14BBCB1	59631	QM	TMWA	88.60	124.02	132.91	128.69	101.39	121.66
088 N17 E19 17DBCB1	57008	QM	MT. ROSE BOWL PROPERTY OWNERS WATER	20.35	3.71	0.05	1.03	20.35	-
088 N17 E19 17DCCA1	30434	QM	MT. ROSE BOWL PROPERTY OWNERS	8.04	3.71	7.99	8.04	8.04	6.61
088 N17 E19 19AADC1	89103	REC	MT. ROSE DEVELOPMENT COMPANY	386.67	N/A	N/A	N/A	N/A	N/A
088 N17 E19 19ACDB1	89102	REC	MT. ROSE DEVELOPMENT COMPANY	386.67	N/A	N/A	N/A	N/A	N/A
088 N17 E19 19CCCA1	67914, 67915, 67916, 67917, 67918, 79024, 85945	QM , REC	MT. ROSE DEVELOPMENT COMPANY	363.34	36.42	53.06	40.47	116.32	131.67
088 N17 E19 19CCCA2	85946	REC	MT. ROSE DEVELOPMENT COMPANY	131.67	0.00	11.87	170.69	32.40	-
088 N17 E19 19DBBB1	19098	QM	MT. ROSE DEVELOPMENT COMPANY	4.82	3.21	3.38	3.34	5.79	4.82
088 N17 E20 03BBCC1	86631	IRR	BRIAN AND TJ ALLMAN 2016 REV. LIVING TRUST	10.00	0.00	0.00	N/A	1.92	1.70

SITE NAME	APP NO.	MOU	OWNER OF RECORD	DUTY (AF) 2022	DUTY USED 2018	DUTY USED 2019	DUTY USED 2020	DUTY USED 2021	DUTY USED 2022
088 N17 E20 03CBAB1	91218	IRR	O'SULLIVAN FAMILY TRUST	4.00	N/A	N/A	N/A	N/A	N/A
088 N17 E20 03CBCA1	81356, 81357, 91898	COM, IRR	MSJ PROPERTIES, LLC	8.93	7.39	10.07	9.96	10.08	6.98
088 N17 E20 03CCBA1	66450, 66451	IRR, COM	HOLLY CLAVELL-HEAD LAND TRUST	4.89	6.35	3.03	6.27	4.89	4.89
088 N17 E20 03CCBD1	83682, 83683	QM	WELCH, JAMES H.	4.00	5.25	4.87	5.06	5.44	5.45
088 N17 E20 04AAAD1	85666	IRR	CLAY TRUST	12.00	2.43	3.19	3.12	4.10	8.42
088 N17 E20 04AABA1	86632	IRR	GRIMES LIVING TRUST	12.00	0.00	0.00	N/A	0.52	0.28
088 N17 E20 04AACAI	77677	IRR	FLOYD FAMILY TRUST DATED MARCH 13, 2014	6.00	1.06	0.96	1.42	3.88	3.02
088 N17 E20 04AADAI	79858	IRR	THE RED DOG TRUST, DATED FEBRUARY 22, 2016	14.00	6.86	4.88	6.07	9.92	9.99
088 N17 E20 04ABAD1	86630	IRR	GRIMES LIVING TRUST	5.00	0.00	0.00	N/A	0.29	1.24
088 N17 E20 04ABDA1	90810	COM	BAUER, BENNETT J. AND DARCY O.	0.50	N/A	N/A	N/A	N/A	N/A
088 N17 E20 04ACCB1	76316	IRR	ROLL/CHAIKEN TRUST DATED 6/21/2016	33.02	9.07	6.97	0.50	18.15	22.71
088 N17 E20 04ADDC1	83594, 84317	IRR	SCHULER, MICHAEL AND ELIZABETH; MICHAEL AND BETH SCHULER REV. FAM. TRUST	50.00	0.00	1.08	5.00	0.49	0.99
088 N17 E20 04BACB1	65090	QM	JLC REALTY, LLC	4.00	0.59	1.06	2.68	1.83	0.08
088 N17 E20 04BACD1	70496	COM	BORDIGIONI TRUST AGREEMENT 3/18/1997	1.88	0.08	0.04	0.18	0.94	0.19
088 N17 E20 04BCDC1	45133	COM	TOGLIATTI, ROBERT	0.03	0.03	0.03	0.03	0.03	0.03
088 N17 E20 04CBBB1	59042	QM	1997 GENO O. & VELDA ROSASCHI REVOCABLE TRUST	1.64	3.35	6.40	3.63	1.88	3.97
088 N17 E20 04CDDI1	86544	IRR	KEVIN AND DEBRA QUILICI FAMILY TRUST	5.90	7.67	0.01	2.92	3.84	2.07
088 N17 E20 04DABA1	52421A02	IRR	AMSTERDAM HOLDINGS, LLC	43.77	0.00	1.42	0.00	28.45	15.32
088 N17 E20 04DABB1	66453	COM	BUCK, ANNE E.	0.80	6.39	5.68	5.81	5.34	0.80
088 N17 E20 04DACA1	89794	IRR	AMSTERDAM HOLDINGS, LLC	4.04	N/A	N/A	N/A	2.59	1.41
088 N17 E20 04DADA1	86572	IRR	THE C & S O'NEAL FAMILY TRUST	CAN	0.00	0.00	N/A	CAN	CAN
088 N17 E20 04DBAB1	73236, 83571	STK, QM	ROLL/CHAIKEN TRUST DATED 6/21/2016	2.67	0.03	0.10	0.15	0.67	0.67
088 N17 E20 04DBAD1	76539	IRR	ROLL/CHAIKEN TRUST DATED 6/21/2016	31.58	0.00	0.40	0.05	21.38	7.39
088 N17 E20 04DBDB1	87302, 87303	COM	SORENSEN, KIRSTEN	3.00	0.00	1.50	0.09	0.11	1.50
088 N17 E20 04DCDD1	52420, 52422A02	IRR	JENNIFER JOANNA DAVIS 2001 REVOCABLE TRUST DATED JULY 20, 2001; WILLOMONTE LAND AND LIVESTOCK	279.31	0.00	0.00	0.19	0.19	97.88
088 N17 E20 04DDBC1	91611	IRR	GOLDEN R HEART RANCH, LLC SERIES F	2.02	N/A	N/A	N/A	N/A	N/A
088 N17 E20 05DCAB1	48958	COM	WOOD, ANGELA & DAVID L.	2.03	0.17	0.25	0.26	0.17	0.11
088 N17 E20 07AABB1	22474, 91661	IRR	1995 TENNEY FAMILY TRUST DATED OCT. 27, 1995; GRCS PROPERTIES, LLC	8.66	0.00	0.00	0.00	0.00	3.90
088 N17 E20 07CADA1	22002	QM	WASHOE COUNTY SCHOOL DISTRICT	723.97	15.00	15.00	9.00	15.00	15.00
088 N17 E20 07CADD1	11533	IRR	GAMBONI CON CO INC.; D & J KITTIS; JENNIFER JOANNA DAVIS 2001 REVOCABLE TRUST DATED JULY 20, 2001; TOMOTHY F. AND PAMELA L. HOLT	49.67	1.80	3.17	3.17	3.17	2.99
088 N17 E20 07CCBB1	82835	MUN	MARION HOPKINS 2012 TRUST (6.73 AF), KIRSTEN SORENSEN (1.50 AF), O'SULLIVAN FAMILY TRUST (3.99 AF) TMWA (49.22 AF)	57.99	N/A	N/A	0.10	0.00	0.00
088 N17 E20 07CCCD1	35226	QM	TMWA	1.00	0.00	0.00	0.00	0.00	0.00
088 N17 E20 07DBAC1	70668	COM	COLI-DAMONTE, LLC	2.00	3.15	2.00	2.92	0.52	3.62
088 N17 E20 09BBAC1	28895	QM	STEAMBOAT COURT WATER USERS ASSOC.	2.03	0.87	0.85	1.66	1.05	1.53
088 N17 E20 09BBAC2	28896	QM	STEAMBOAT COURT WATER USERS ASSOC.	2.55	N/A	0.00	0.05	2.55	2.55

SITE NAME	APP NO.	MOU	OWNER OF RECORD	DUTY (AF) 2022	DUTY USED 2018	DUTY USED 2019	DUTY USED 2020	DUTY USED 2021	DUTY USED 2022
088 N17 E20 09BBCD1	62875	DOM	MACDONALD, KRYSTIN	1.00	0.09	0.01	1.00	0.07	1.00
088 N17 E20 18ABBC1	57429, 57750, 57429A01	MUN, QM	MARION HOPKINS 2012 TRUST (6.72), THE OSULLIVAN FAMILY TRUST DATED DECEMBER 15TH, 2003 (0.01 AFA); TMWA	213.09	32.34	21.21	48.66	34.79	33.51
088 N17 E20 18BAAB1	57749	QM	TMWA	100.60	N/A	N/A	N/A	N/A	N/A
088 N18 E19 34CDCC1	46958, 58806	QM	THE NELL J. REDFIELD TRUST (1.32 AF), TMWA (24.64 AF); TMWA	45.21	22.77	25.84	31.67	2.98	24.65
088 N18 E19 34DBDD1	35656	OTH	NEVADA-FORESTRY DIVISION	2.24	0.73	0.53	0.91	0.69	0.37
088 N18 E19 34DCCB1	29419, 85097	IRR, QM	KUTNOCK, ROBERT & BARBARA; MACLEAN LIVING TRUST	2.40	4.87	5.19	2.14	2.62	2.09
088 N18 E19 35CACD1	61269, 61270, 65960, 65961, 66655, 70262, 77729	MUN, QM	TMWA	479.24	142.23	150.74	209.03	165.28	160.62
088 N18 E19 35CBCC1	61267, 61268, 65958, 65959, 66654, 70261, 76651	MUN, QM	TMWA	468.83	83.63	116.28	165.17	104.77	77.18
088 N18 E20 33CDCC1	62718	COM	ANCHOR STORAGE, LLC	2.38	6.79	6.73	1.04	0.54	2.96
088 N18 E20 33CDCC1	88303	COM	CHILDERS, MICHAEL AND NORMA	0.76	N/A	N/A	N/A	1.21	1.15
088 N18 E20 33DCCD1	50380, V04810	QM, IRR	MONROE, R. LARRY & NANCY J.; MONROE, LARRY R. & NANCY J.	19.36	13.37	15.81	19.89	14.20	13.22
088 N18 E20 33DCDC1	58496, 63147	QM	STEAMBOAT SPRINGS WATER WORKS, INC.; FRANK D. CAFFARATTI 1987 TRUST; AMSTERDAM HOLDINGS, LLC; H.A.B. LIVING TRUST	159.74	139.34	59.30	108.80	205.81	244.22
088 N18 E20 33DCDC2	58498	QM	STEAMBOAT SPRINGS WATER WORKS INC.	235.23	0.00	18.23	0.05	50.89	256.35
088 N18 E20 33DCDD1	58497, 63146	QM	STEAMBOAT SPRINGS WATER WORKS INC.; FRY, HARRY C.	80.54	0.00	41.06	0.10	50.89	122.78

Legend:

REL - Relinquished

N/A - Not Applicable

CAN - Cancelled

ABR - Abrogated