

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

JASON KING, P.E.
STATE ENGINEER



MESQUITE (SANDY) VALLEY
(HYDROGRAPHIC BASIN 10-163)

GROUNDWATER PUMPAGE INVENTORY

WATER YEAR 2014

Field Investigated by: John Guillory, P.E. & Christi Cooper

Report Prepared by: Christi Cooper

TABLE OF CONTENTS

ABSTRACT	2
HYDROGRAPHIC BASIN SUMMARY	3
PURPOSE AND SCOPE	4
DESCRIPTION OF THE STUDY AREA	4
GROUNDWATER LEVELS	4
FIGURE 1. PHYSIOGRAPHIC MAP OF MESQUITE (SANDY) VALLEY, HYDROGRAPHIC BASIN 10-163	5
METHODS TO ESTIMATE PUMPAGE	6
PUMPAGE BY MANNER OF USE	7
APPENDIX A. MESQUITE (SANDY) VALLEY HISTORICAL PUMPAGE	8
APPENDIX B. MESQUITE (SANDY) VALLEY GROUNDWATER PUMPAGE FOR WATER YEAR 2014	10
APPENDIX C. MESQUITE (SANDY) VALLEY GROUNDWATER PUMPAGE INVENTORY FOR WATER YEAR 2014	12
APPENDIX D. MESQUITE (SANDY) VALLEY GROUNDWATER PUMPAGE INVENTORY FIELD NOTES FOR WATER YEAR 2014	19

ABSTRACT

This inventory represents the status and usage of all permitted, certificated and claims of vested right groundwater rights located within Mesquite (Sandy) Valley, Hydrographic Basin 10-163, for water year 2014 (October 1, 2013 through September 30, 2014). Also included are data associated with depth to groundwater.

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

For water year 2014 the permitted, certificated and claims of vested right groundwater rights totaled **386 acre-feet**. Estimated pumpage for the water year was **623 acre-feet**. For water year 2014, pumpage from domestic wells (the largest manner of use in the basin) was 436 acre-feet. Exempt domestic wells are defined by Nevada Revised Statutes 534.013 and do not require a permit issued by the State Engineer. The second largest manner of use was quasi-municipal, with appropriations totaling 309 acre-feet and pumpage of 130 acre-feet.

HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER..... 163, REGION 10
HYDROGRAPHIC BASIN NAME..... MESQUITE V. (SANDY V.)
COUNTIES..... CLARK
MAJOR COMMUNITIES..... SANDY
DESIGNATED YES
DENIALS BASED UPON WATER AVAILABILITY IRRIGATION
GROUNDWATER LEVEL MEASUREMENTS NDWR
ESTIMATED PUMPAGE INVENTORY, ACRE-FEET IN 2014..... 623*

STATE ENGINEER’S ORDERS
[701](#) - DESIGNATION JANUARY 5, 1978

COMMITTED GROUNDWATER RESOURCE: 386 ACRE-FEET DATE: JANUARY 2015

QUASI-MUNICIPAL...309 IRRIGATION 44 COMMERCIAL 33

MINING&MILLING.... TBD[†]

NOTE: Committed groundwater resource data are accurate for January 2015. Manner of use category totals vary over time, as rights are not necessarily static. Rights may be subject to change applications, certification, withdrawals, forfeiture and cancellations; each of these circumstances could impact the duty, diversion rate and acreage associated with a given right.

*Includes pumpage by exempt domestic wells, as defined by NRS 534.013. The domestic use estimate is based upon a count of the total domestic wells in the basin multiplied by 0.5 acre-foot per annum. The number of domestic wells in the basin, estimated by a query of the [Nevada Division of Water Resources Well Log Database](#), is estimated to be 872.

[†]An appropriation for mining and milling is pending for 50 acre-feet in the basin.

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 the Mesquite (Sandy) Valley Hydrographic Basin (10-163), for the time period beginning October 1, 2013 and ending September 30, 2014 (hereafter referred to as water year 2014). 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. Associated information, such as groundwater level measurements, is also presented.

DESCRIPTION OF THE STUDY AREA

Mesquite (Sandy) Valley is a basin located in southern Nevada that straddles the Nevada and California state line. The valley is approximately 40 miles southwest of Las Vegas, Nevada and approximately 15 miles west of Jean, Nevada, and is within the Central Hydrographic Region. The town of Sandy is the principal community. The Nevada portion of the basin (approximately 240 square miles) lies within Clark County and the California portion of the basin (approximately 220 square miles) lies within Inyo and San Bernardino Counties (Figure 1).

Mesquite (Sandy) Valley is bounded on the east and northeast by the Spring Mountain Range. This range rises to 11,918 feet (all elevations in this text are above mean sea level) and is the basin's primary watershed. The Clark Mountain Range forms the south boundary. The Mesquite Mountains borders the basin to the southwest; the Kingston Range borders the basin to the west. The northern and northwest boundaries are formed by a low alluvial rise and intermittent hills separating Mesquite (Sandy) Valley from Pahrump Valley. The adjacent Nevada hydrographic basins are as follows: Pahrump Valley (10-162), to the northwest; Las Vegas Valley (13-212), to the northeast; and Ivanpah Valley - Northern Part (10-164A), to the east. The exterior boundary of the Mesquite (Sandy) Valley Hydrographic Basin is as described by Designation Order 701, issued by the Nevada State Engineer January 5, 1978. The basin covers approximately 460 square miles. Valley floor elevations range from approximately 4,000 feet, along the toe of the Spring Mountains Range, to about 2,540 feet at the lowest point.

GROUNDWATER LEVELS

Depths to groundwater in Mesquite (Sandy) Valley are measured by NDWR on a semi-annual basis. Site names and links to the data are as follows (Figure 1):

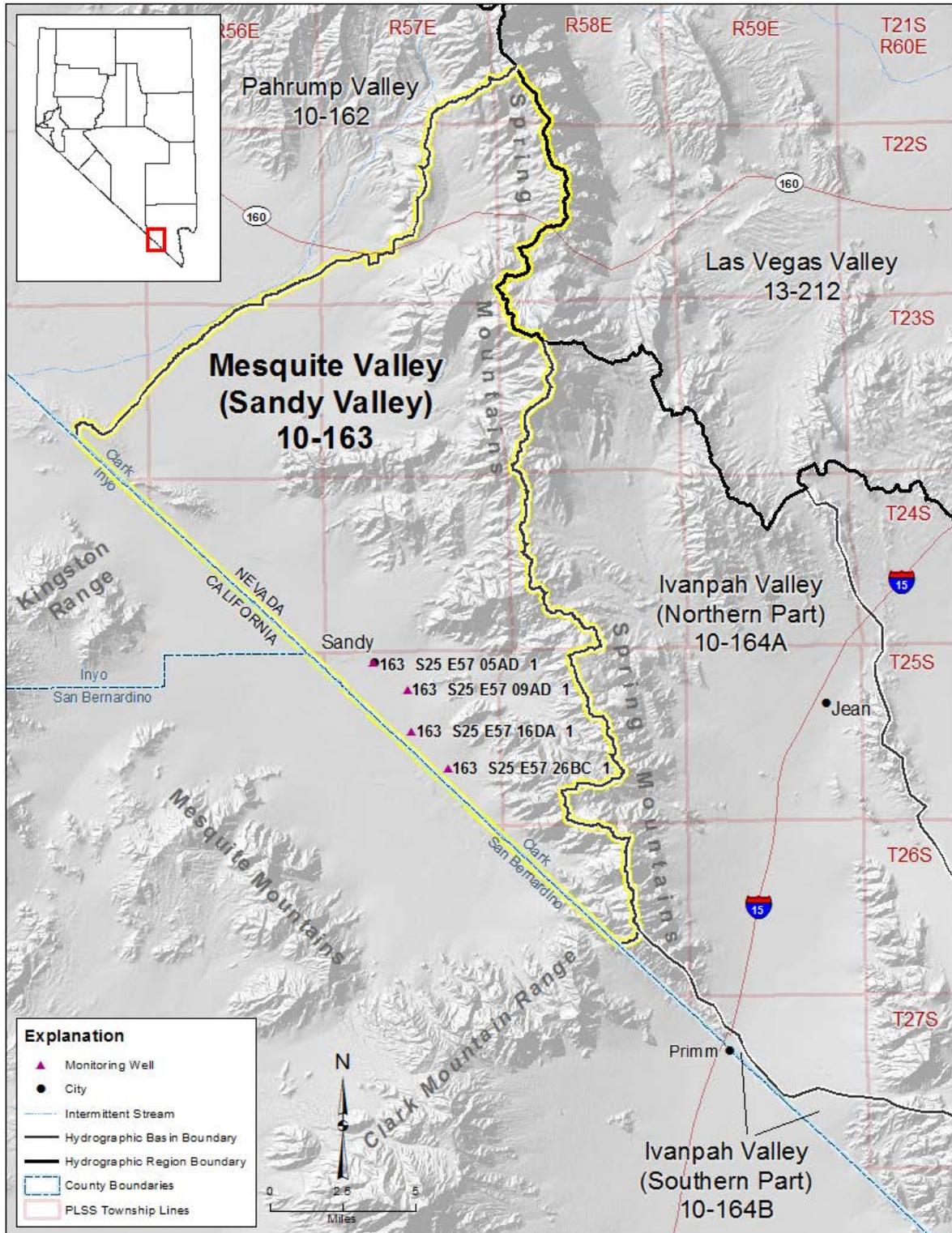
[163 S25 E57 05AD 1](#)
[163 S25 E57 09AD 1](#)

[163 S25 E57 16DA 1](#)

[163 S25 E57 26BC 1](#)

Additional water level and site data can be obtained on the NDWR website (<http://water.nv.gov>). Groundwater level data have also been collected by the US Geological Survey and can be accessed on their website (<http://nevada.usgs.gov/>).

FIGURE 1. PHYSIOGRAPHIC MAP OF MESQUITE (SANDY) VALLEY, HYDROGRAPHIC BASIN 10-163.



METHODS TO ESTIMATE PUMPAGE

This report estimates the amount of groundwater pumped under the permits and certificates issued by the Nevada State Engineer as well as claims of vested right and exempt domestic wells in the Dry Valley Hydrographic Basin. The following methods were used to arrive at the estimated use:

- Where totalizing meters are 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 are 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 are supplemental to surface water, groundwater use is estimated using the NIWR method above, but is 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/mapping/et/et_general.cfm. This approach using the NIWR to estimate pumpage was not used in previous inventories, and pumpage estimates for 2014 may differ significantly from estimates for previous years.
- 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 by exempt domestic wells is estimated to be 0.5 acre-foot per well in Mesquite (Sandy) Valley.

PUMPAGE BY MANNER OF USE

Note that all data herein are estimates and are subject to revision. The total estimated groundwater pumpage for water year 2014 was **623 acre-feet**. The annual duties of the certificates, permits and claims of vested right within the Mesquite (Sandy) Valley Hydrographic Basin totaled **386 acre-feet**. For water year 2014, the appropriated and actual pumped totals are categorized by manner of use:

A. Quasi-Municipal (QM)

Appropriations for quasi-municipal totaled 309 acre-feet, with estimated groundwater pumpage of 130 acre-feet.

B. Commercial (COM)

Appropriations for commercial purposes totaled 33 acre-feet, with estimated pumpage of 17 acre-feet.

C. Irrigation (IRR)

Appropriations for irrigation purposes totaled 44 acre-feet, with estimated groundwater pumpage of acre-feet.

D. Mining & Milling (MM)

An appropriation for mining and milling is pending for 50 acre-feet in the basin; groundwater pumpage was estimated to be 3 acre-feet.

E. Domestic (DOM)

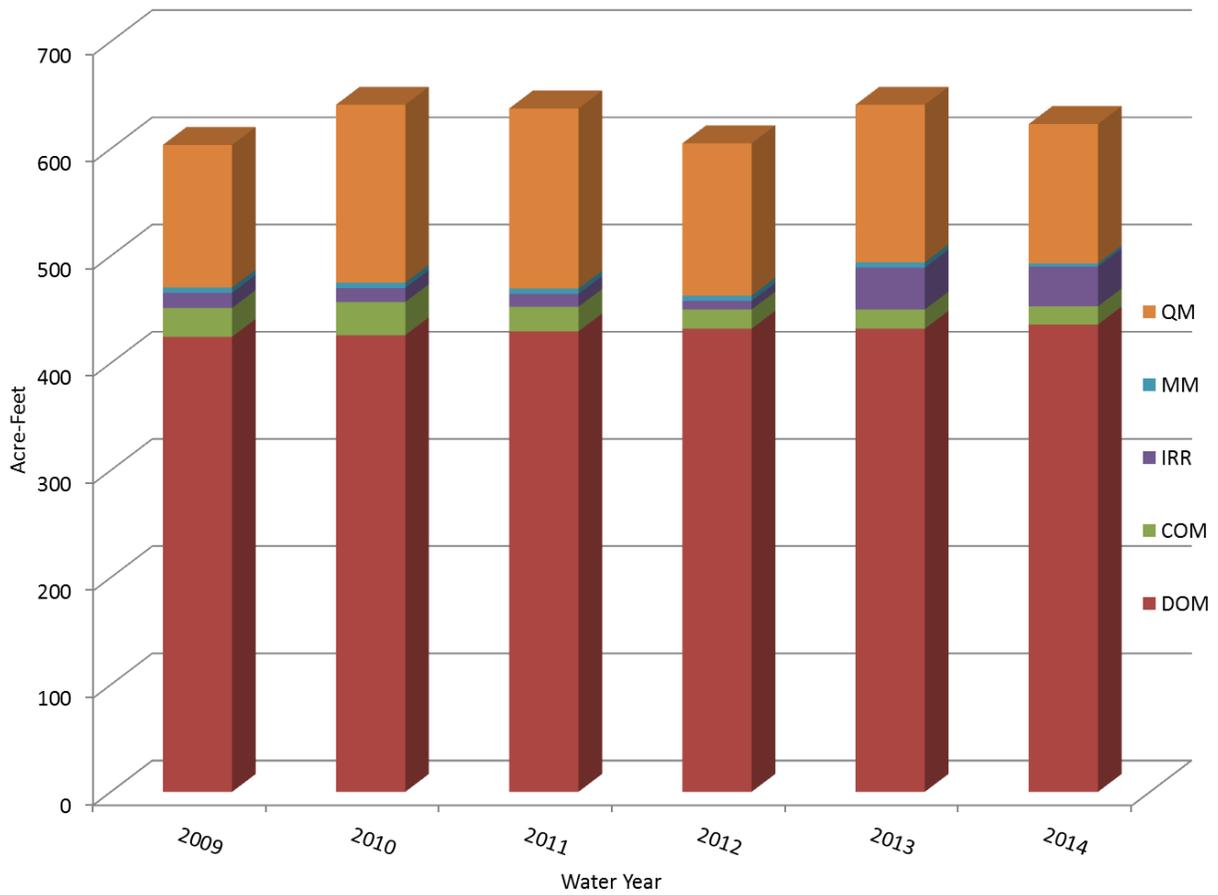
Appropriations for domestic purposes totaled 0 acre-feet in the basin. However, records of the State Engineer indicate an estimated 872 exempt domestic wells existed in the basin during water year 2014. The amount of water pumped for domestic use as described under NRS 534.013 is estimated at 436 acre-feet.

APPENDIX A. MESQUITE (SANDY) VALLEY HISTORICAL PUMPAGE.

HISTORICAL GROUNDWATER PUMPAGE BY MANNER OF USE

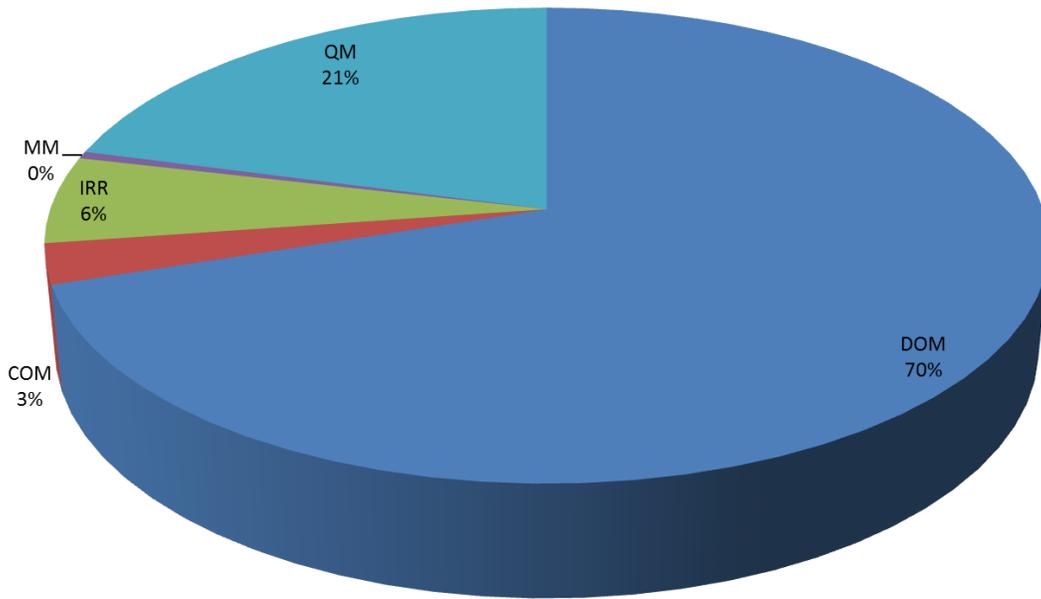
YEAR	DOM	COM	IRR	MM	QM	TOTAL
2009	425	27	14	5	133	604
2010	426	31	13	5	166	641
2011	430	23	12	5	168	638
2012	432	18	8	5	142	605
2013	432	18	39	5	147	641
2014	436	17	37	3	130	623

All values are in acre-feet

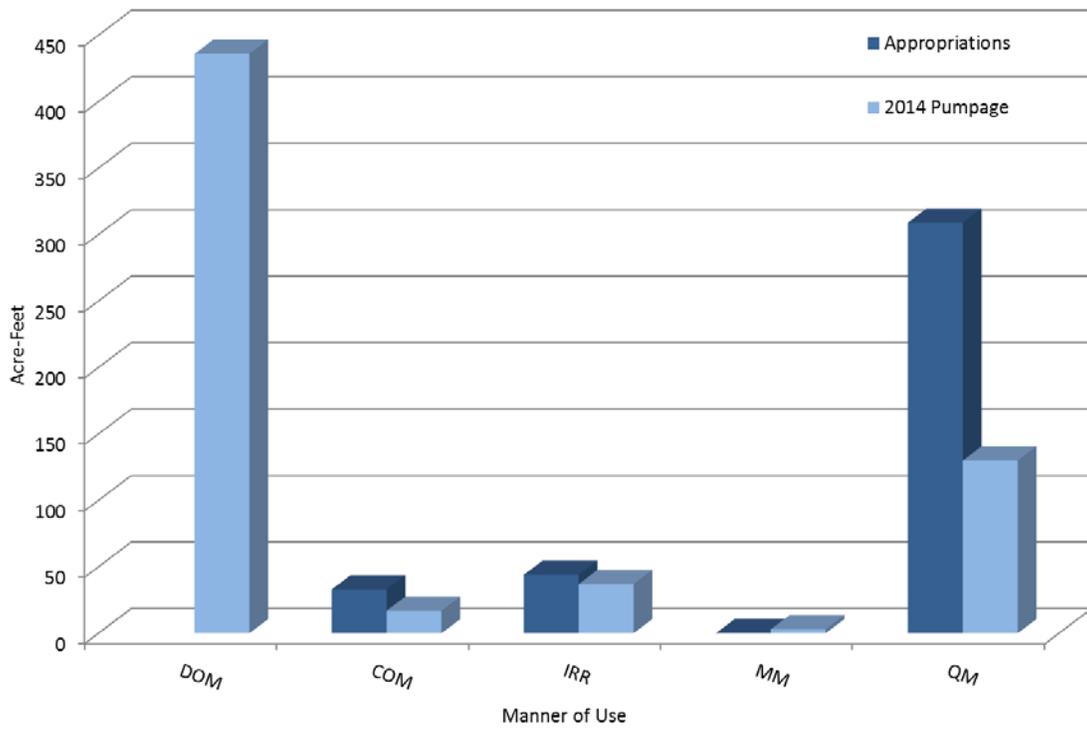


**APPENDIX B. MESQUITE (SANDY) VALLEY GROUNDWATER PUMPAGE
FOR WATER YEAR 2014.**

PERCENTAGE OF GROUNDWATER PUMPAGE FOR WATER YEAR 2014 BY MANNER OF USE



GROUNDWATER PUMPAGE WATER YEAR FOR 2014 APPROPRIATIONS VS. ACTUAL PUMPAGE



**APPENDIX C. MESQUITE (SANDY) VALLEY GROUNDWATER PUMPAGE
INVENTORY FOR WATER YEAR 2014.**

EXPLANATION OF COLUMN HEADINGS FOR GROUNDWATER PUMPAGE INVENTORY

APP NUMBER	The file number of the Application or the Vested Claim of Right.																
STATUS	Indicates if the application is a Vested Claim of Right (VST), a Permit (Permit), or a Certificate (Cert).																
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.																
ACRES OR DUTY	The number of acres that are permitted to be irrigated or the duty if the manner of use is anything other than irrigation.																
ACRES IRR OR USE	<p>The number of acres irrigated or the manner of use of the appropriated water. The types of manner of use may include:</p> <table border="0" style="width: 100%;"> <tr> <td>COM - Commercial</td> <td>CON - Construction</td> </tr> <tr> <td>DOM - Domestic</td> <td>ENV - Environmental</td> </tr> <tr> <td>IND - Industrial</td> <td>IRR - Irrigation</td> </tr> <tr> <td>MM - Mining & Milling</td> <td>MUN - Municipal</td> </tr> <tr> <td>OTH - Other</td> <td>PWR - Power</td> </tr> <tr> <td>QM - Quasi-Municipal</td> <td>REC - Recreation</td> </tr> <tr> <td>STK - Stockwater</td> <td>STO - Storage</td> </tr> <tr> <td>WLD - Wildlife</td> <td></td> </tr> </table>	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	
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																	
USED (AF)	The amount of water used during the water year, in acre-feet, as determined by review of records and/or field investigation.																
REMARKS	Notes pertaining to field investigation and/or review of records.																

**GROUNDWATER PUMPAGE INVENTORY
MESQUITE (SANDY) VALLEY, NO. 163
2014**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
V09638 V09639	VST VST	KMI Zeolite, Inc.	N2	SW	03	25	57	0.00	MM	2.50	WV, no meter. Used for dust control at zeolite mine. Approx. 2,000 gpd per operations manager 08-26-14
26713	Cert	Gibson, Nadine and MJ Bud	SW	SW	25	24	56	0.60	0.30	2.68	S/N 9812750 Domestic use. Meter installed 09-20-13 RD - 00813400 08-26-14
28954	Cert	Bell Telephone	SE	SW	31	24	57	0.06	COM	0.06	No meter. Locked 08-26-14 Well used for bathroom only.
31209	Permit	Sky Ranch Estates	SW	SE	06	25	57	152.04	QM	0.11	POD 31209: S/N 66143282 RD - 07825500 - 08-14-12 RD - 08117900 - 09-12-13 RD - 08152600 - 08-26-14
42512 67960	Permit Permit								QM	53.76	POD 42512 & 67960: S/N 134359 RD -095901000 - 08-14-12 RD - 115343000 - 09-12-13 RD - 132044000 - 08-26-14
59006	Cert	Larson						8.96	QM	12.09	POD 59006: S/N 144889 RD - 10710700 - 08-14-12 RD - 15310600 - 09-12-13 RD - 19065200 - 08-26-14 45 homes, 12 mobile homes, 33 hangars, 2 commercials bldgs.
38311	Cert	Sweney	SW	SE	32	24	57	3.13	COM	7.89	S/N 05004964 1 trailer, restaurant RD - 14484700 - 08-14-12 RD - 17170500 - 09-12-13 RD - 19622600 - 08-26-14

**GROUNDWATER PUMPAGE INVENTORY
MESQUITE (SANDY) VALLEY, NO. 163
2014**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
45515	Cert	L Mejia	SW	SW	25	24	56	4.75	4.75	34.04	S/N 873082-06
50656	Cert						4.74	2.37	RD - 203793000 - 08-14-12 RD - 206145000 - 09-12-13, meter broken 11-01-13, meter repaired reading zero RD - 009056000 - 08-26-14 Domestic well serves 50656 POU		
45690	Cert	Clark County	NE	SW	32	24	57	15.80	QM	15.04	no S/N. Sandy Valley School
50990	Cert								RD - 44047700 - 08-14-12 RD - 50317600 - 09-12-13 RD - 54991200 - 08-26-14		
45762	Cert	L.D.S. Church	SW	NE	04	25	57	2.90	QM	4.25	S/N 67305279
									RD - 1097330 - 08-14-12 RD - 2902960 - 09-12-13 RD - 4222030 - 08-26-14		
50579	Cert	Rau	NW	SW	25	24	56	1.00	QM	1.42	S/N 051158204
									RD - 05599900 - 08-14-12 RD - 06119100 - 09-12-13 RD - 06559700 - 08-26-14		
57190	Cert	Slankard	SW	SE	31	24	57	1.12	COM	1.93	S/N 92538818 General Store
									RD - 21339900 - 08-14-12 RD - 22288600 - 09-12-13 RD - 22887900 - 08-26-14		
58719	WDR	B. Wills	SE	SW	32	24	57	1.50	COM	0.00	S/N 9072445
									RD - 05554400 - 07-21-09 No use, meter removed.		
60087	Cert	Kolojay	NE	NE	06	25	57	2.02	COM	0.53	S/N 94528666 Shopping center
									RD - 06732100 - 08-14-12 RD - 06999000 - 09-12-13 RD - 07163100 - 08-26-14		

**GROUNDWATER PUMPAGE INVENTORY
MESQUITE (SANDY) VALLEY, NO. 163
2014**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
60264	Permit	Clark County	Lt.	01	01	23	57	8.00	QM	0.07	Camp Potosi. S/N 49081567 RD - 02666200 - 08-14-12 RD - 02666300 - 09-12-13 RD - 02688800 - 08-26-14
61409	Canc	Augustine Bustos	SW	SW	01	23	57	19.33	COM	0.00	S/N 12005462 New meter RD - 0017060 - 09-12-13 RD - 0017090 - 08-26-14
62466	Permit	Skip Powell Mgmt. Corp	NE	SW	24	24	56	4.50	COM	0.00	S/N 96502368 gravel pit RD - 20622300 - 08-14-12 RD - 20622300 - 09-12-13 RD - 20622300 - 08-26-14
62506 62507 62941 83124T	Permit Permit Permit Permit	Clark County	Gov.	Lot #6	36	24	56	90.00	QM	5.86	POD 62507 & 62941: S/N 60609831 RD - 17271200 - 08-14-12 RD - 17271200 - 09-12-13 RD - 17271200 - 08-26-14 well pumping meter broken
									QM	7.11	POD 62506: S/N 60609832 RD - 08963500 - 08-14-12 RD - 11689200 - 09-12-13 RD - 13899200 - 08-26-14
62588	Canc	Diamond Estates	SE	SE	16	24	56	8.96	QM	0.00	No meter, 1 abandoned mobile home 08-26-14. Cancelled 03-30-07
64471	Cert	Valley Elect. Assoc. Inc.	SW	SW	32	24	57	1.12	COM	0.09	S/N 6917517 RD - 00678300 - 08-14-12 RD - 00690300 - 09-12-13 RD - 00717700 - 08-26-14
65611	Canc	Augustine Bustos	SW	SW	01	23	57	1.44	COM	0.00	WV, no works, POU vacant. 08-26-14 Cancelled 12-10-10

**GROUNDWATER PUMPAGE INVENTORY
MESQUITE (SANDY) VALLEY, NO. 163
2014**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
65713	Permit	Talavera	SW	SE	32	24	57	1.34	COM	0.00	WV, open casing, POU vacant 08-26-14
66227	DEN	Vidler Water Company	NW	NE	14	25	57	415.00	QM	0.00	WV, capped. 08-26-14
66275	Cert	John Kamp	SW	NE	05	25	57	0.98	COM	0.00	S/N 70809192 American Gas RD - 0190000 - 08-14-12 RD - 0191730 - 09-12-13 RD - 0193220 - 08-26-14
66545	Permit	Valley Educational Foundation	SE	SE	31	24	57	23.80	QM	20.76	S/N 0108206 units in cubic feet RD - 2705440 - 08-14-12 RD - 4195600 - 09-12-13 RD - 5057840 - 08-26-14 Second unpermitted well within POU
66835	Canc	Haddad	NE	NW	06	25	57	2.00	COM	0.00	gate locked, POU vacant. 08-26-14 S/N 6186993 Cancelled 05-05-09 RD - 679910 - 09-25-07
67442	Permit	Benny LLC & Mark Weinger	NE	NW	06	25	57	2.02	COM	0.00	POU vacant, gate locked. 08-26-14 S/N 62407150 RD - 58240 - 09-15-08
68790	Canc	Dunajski Ernie	SE	SW	31	24	57	1.50	COM	0.00	Bar closed, gate locked. 08-14-12 S/N 60990153 Cancelled 08-17-07 RD - 3076980 - 08-12-11 RD - 3093050 - 09-12-13 RD - 3093050 - 08-26-14
70428	Permit	Angellotti F/Trust	NE	SE	19	22	58	4.03	COM	2.38	S/N 64677680 Mtn. Springs Bar RD - 04417800 - 08-14-12 RD - 04793200 - 09-12-13 RD - 05531100 - 08-26-14

**GROUNDWATER PUMPAGE INVENTORY
MESQUITE (SANDY) VALLEY, NO. 163
2014**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
71449	Canc	ACVLB Family Trust	NW	SW	20	22	58	8.00	COM	2.84	S/N 12005461 New meter RD - 1084810 - 09-12-13 RD - 1967540 - 08-26-14
71962	Canc	Sandy Valley Rancheros Water Users	SW	SE	32	24	57	3.36	QM	9.66	S/N 850859 RD - 11016800 - 08-14-12 RD - 13564000 - 09-12-13 RD - 16564100 - 08-26-14
73594	Permit	Sandy Valley Church	SW	NE	06	25	57	2.00	COM	1.19	S/N 955877 RD - 07678000 - 08-14-12 RD - 08101500 - 09-12-13 RD - 08470500 - 08-26-14
74313	Permit	Zeigler	NW	NE	5	25	57	12.00	COM	0.00	WNV, POU vacant. 08-26-14
75476	Permit	Benny, LLC	NW	SW	25	24	56	4.00	QM	0.00	S/N 66979529 Property vacant RD - 0000110 - 09-12-13 no meter, disconnected 08-26-14
77285	Permit	Monte Brown	S2	SW	31	24	58	2.00	COM	0.00	WV, no meter, gravel pit, no use. 08-26-14
TOTAL										186.26	Permitted rights

Verified with field notes: Christi Cooper

**APPENDIX D. MESQUITE (SANDY) VALLEY GROUNDWATER PUMPAGE
INVENTORY FIELD NOTES FOR WATER YEAR 2014.**

2014

Mesquite (Sandy) Valley
No. 163

Inventory Field Notes

compiled by
John Guillory, P.E. and Christi Cooper

State of Nevada
Division of Water Resources
Southern Nevada Branch Office

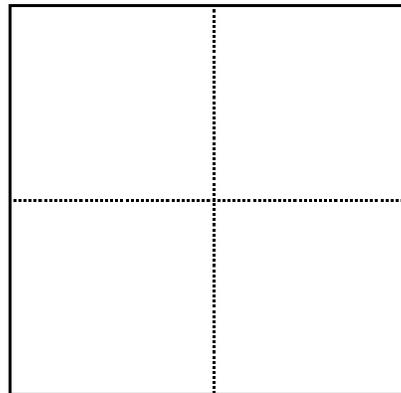
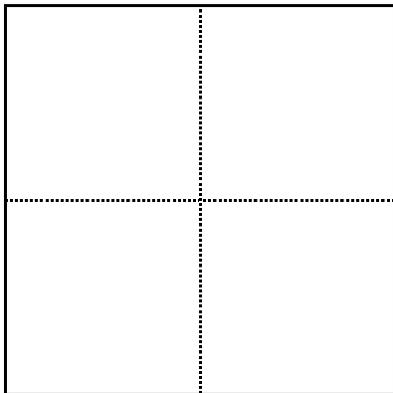
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 163 PERMIT NO: 26713
WELL: YES X NO METER SER NO: 9812750
PUMP: YES X NO PUMP TYPE: Submersible
MOTOR: YES NO X MOTOR TYPE:
METER: YES X NO METER READ: 00813400
PHOTO: YES NO X ACRES IRR: 0.3
BENEFICIAL USE: YES X NO PORTION X ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

 1/4 1/4 SEC



REMARKS: APN 200-25-401-002. Domestic use and hydroponic use. Hersey meter.

SIGNATURE: Christi Cooper DATE: 8/26/2014

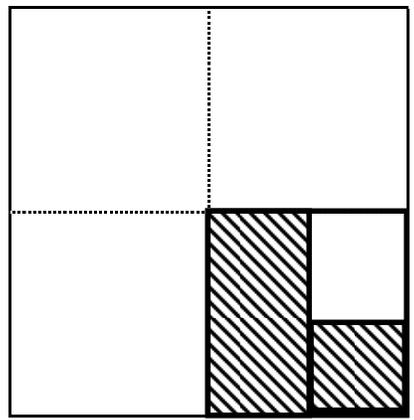
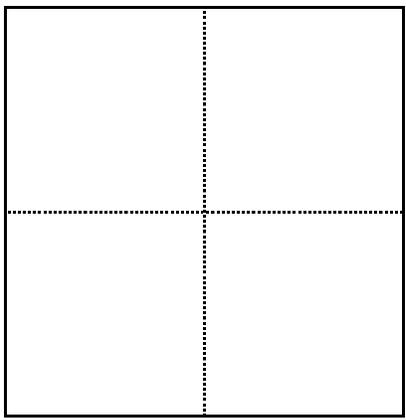
PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 163 PERMIT NO: 45515 & 50656
 WELL: YES NO METER SER NO: 873082-06
 PUMP: YES NO PUMP TYPE: _____
 MOTOR: YES NO MOTOR TYPE: Turbine
 METER: YES NO METER READ: 009056000
 PHOTO: YES NO ACRES IRR: 7.12
 BENEFICIAL USE: YES NO PORTION ALL TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

 1/4 1/4 SEC

SW 1/4 SW 1/4 SEC 25



REMARKS: Meter broken. Meter repaired and re-installed 11-01-13 with a reading of zero. Alfalfa.

SIGNATURE: Christi Cooper DATE: 8/26/2014