

# 2015 Urban Water Management Plan

June 2016





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June 1, 2016

Mr. Gary King  
Chief Engineer  
Nevada Irrigation District  
1036 W. Main Street  
Grass Valley, California 95945-5424

1017-147935

Subject: 2015 Urban Water Management Plan

Dear Mr. King:

We are pleased to submit to you this 2015 Urban Water Management Plan (UWMP). We have updated your 2010 UWMP to incorporate more recent data and information as well as new requirements in the law and from the California Department of Water Resources (DWR).

Please let me know if you have any questions.

Very truly yours,

**Brown and Caldwell,**  
a California Corporation

A handwritten signature in black ink, appearing to read "Melanie Holton". The signature is fluid and cursive, with a large initial "M" and "H".

Melanie Holton, P.E.  
Project Engineer

MH:ds

Enclosure (1):

1. 2015 Urban Water Management Plan for the Nevada Irrigation District





# 2015 Urban Water Management Plan

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Prepared for  
Nevada Irrigation District  
Grass Valley, CA  
June 2016



147935



11020 White Rock Road, Suite 200  
Rancho Cordova, CA 95670



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## List of Abbreviations

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°F	degrees Fahrenheit
ac-ft	acre-feet
ac-ft/yr	acre-feet per year
Act	Urban Water Management Planning Act
AWWA	American Water Works Association
CABY	Cosumnes American Bear Yuba
CII	commercial, industrial, and institutional
CIMIS	California Irrigation Management Information System
CWC	California Water Code
DAC	Disadvantaged Community
District	Nevada Irrigation District
DMMs	Demand Management Measures
DOF	Department of Finance
DWR	Department of Water Resources
ETo	evapotranspiration
FERC	Federal Energy Regulatory Commission
ft	feet/foot
GIS	Geographic Information System
GPCD	gallons per capita per day
gpd	gallons per day
HCF	hundred cubic feet
ICC	Incident Command Center
In	inches
IRWMP	Integrated Regional Water Management Plan
MG	million gallons
mgd	million gallons per day
NID	Nevada Irrigation District
PCWA	Placer County Water Agency
PG&E	Pacific Gas and Electric Company
psi	pounds per square inch
SB	Senate Bill
SSWD	South Sutter Water District
SVI	Sacramento Valley Index
SWRCB	State Water Resources Control Board
UWMP	Urban Water Management Plan
WRCC	Western Regional Climate Center
WTP	water treatment plant
WWTP	wastewater treatment plant



## Section 1

# Introduction

This Urban Water Management Plan (UWMP) was prepared for the Nevada Irrigation District (District) in cooperation with the District staff. The District was organized in 1921 under the California Irrigation District Act of 1897 as a nonprofit water agency and operates under Division 11 of the State Water Code.

This UWMP addresses the District's water system and includes a description of the service area, water use, water supply sources, and a comparison of water supply and water demands during normal, single dry, and multiple-dry years. Also described is the District's water conservation program. This UWMP is the year 2015 UWMP as required by the Urban Water Management Planning Act of 1983 (Act). The Act is described in California Water Code Division 6, Part 2.6, Sections 10610 through 10657.

The remainder of this section provides an overview of the Act, the basis for preparing this UWMP, coordination and outreach, public participation, plan implementation, and organization. To aid the reader in understanding the context of the UWMP content, at the beginning of some sections and subsections in this UWMP is italicized text quoting specific portions of the Act that are relevant to the particular UWMP sections.

## 1.1 Urban Water Management Planning Act

The Act became part of the California Water Code with the passage of Assembly Bill 797 during the 1983–1984 regular session of the California legislature. Subsequently, assembly bills between 1990 and 2003 amended the Act. The Act was amended in November 2009 with the adoption of SBX 7-7 and was most recently amended in 2014. The Act is described in California Water Code (CWC) Division 6, Part 2.6, Sections 10610 through 10657.

The Act requires every urban water supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually to adopt and submit a UWMP every five years to the California Department of Water Resources (DWR). The Act describes the contents of the UWMP as well as how urban water suppliers should adopt and implement the UWMP.

## 1.2 Basis for Preparing the Plan

The District is a retail water agency that supplies treated water within the District's service area. Table 1-1 presents the public water system name and number for each of the District's public water systems.

**Table 1-1. (DWR Table 2-1) Retail: Public Water Systems**

Public water system number	Public water system name	Number of connections 2015	Volume of water supplied 2015, ac-ft/yr
CA3110026	NID North Auburn	2,292	1,510
CA2910007	NID Cascade Shores	409	81
CA2910004	Nevada ID - E. George, Banner Mountain	5,503	3,169
CA2910014	Nevada ID - Lake of Pines	2,312	964
CA2910023	Nevada ID - Lake Wildwood	3,188	952
CA2910006	Nevada ID - Loma Rica	4,888	1,225
CA5810005	Smartsville	43	11
Total	--	18,635	7,912

The District has selected individual reporting for this UWMP, as identified in Table 1-2. This UWMP is reporting on a calendar year basis using acre-feet (ac-ft) as the unit of measure as noted in Table 1-3. The Act defines an urban wholesale water supplier as a water supplier that provides more than 3,000 acre-feet per year (ac-ft/yr) of water at wholesale for potable municipal purposes. Because the District's sales to other agencies is less than 3,000 ac-ft/yr, as shown in Section 3, the District is not identified as a wholesale water supplier in this UWMP.

**Table 1-2. (DWR Table 2-2). Plan Identification**

<input checked="" type="checkbox"/>	Individual UWMP
<input type="checkbox"/>	Regional UWMP <i>(checking this triggers the next line to appear)</i>
No	Does this Regional UWMP include a Regional Alliance?

**Table 1-3. (DWR Table 2-3) Agency Identification**

Type of agency (select one or both)

<input type="checkbox"/>	Agency is a wholesaler
<input checked="" type="checkbox"/>	Agency is a retailer

Fiscal or Calendar year (select one)

<input checked="" type="checkbox"/>	UWMP Tables Are in Calendar Years
<input type="checkbox"/>	UWMP Tables Are in Fiscal Years

**Table 1-3. (DWR Table 2-3) Agency Identification**

If using fiscal years  
Provide Month and Day that the Fiscal Year Begins

Day	Month
Units of Measure Used in UWMP (select one)	
<input checked="" type="checkbox"/>	Acre Feet (ac-ft) (unless otherwise noted)
<input type="checkbox"/>	Million Gallons (MG)
<input type="checkbox"/>	Hundred Cubic Feet (HCF)

### 1.3 Coordination and Outreach

*10620(d)(2) Each urban water supplier shall coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies to the extent practicable.*

*10642 Each urban water supplier shall encourage the active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of its plan.*

The Act requires the District to coordinate the preparation of its UWMP with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable. The District does not have a wholesale water supplier as shown in Table 1-4. The District has coordinated this UWMP with other agencies and the community as summarized in Table 1-5.

**Table 1-4. (DWR Table 2-4)  
Retail: Water Supplier Information Exchange**

The retail supplier has informed the following wholesale supplier(s) of projected water use in accordance with CWC 10631,

Wholesaler water supplier name:

Not applicable

**Table 1-5. Summary of Coordination, Adoption, and Submittal Activities**

Potential interested parties	Notified of UWMP update at least 60 days prior to public hearing (including cities and counties)	Was sent a digital copy of the draft UWMP	Participated in UWMP preparation
Nevada County	X		
Placer County	X		
Yuba County	X		
Nevada County Local Agency Formation Commission	X		
County of Placer Local Area Formation Commission	X		
County of Yuba Local Area Formation Commission	X		
Nevada County Farm Bureau	X		
Placer County Farm Bureau	X		
Yuba-Sutter County Farm Bureau	X		
City of Auburn	X		
City of Grass Valley	X	X	
City of Nevada City	X	X	
City of Lincoln	X	X	
Placer County Water Agency	X	X	
Lincoln Public Library	X	X	
Nevada County Library	X	X	
Placer County Library	X	X	
Yuba County Library	X	X	
California Department of Water Resources			
General public		X (District website)	
California State Library			

## 1.4 Public Participation and Plan Adoption

*10621(b) Every urban water supplier required to prepare a plan pursuant to this part shall, at least 60 days prior to the public hearing on the plan required by Section 10642, notify any city or county within which the supplier provides water supplies that urban water supplier will be reviewing the plan and considering amendments or changes to the plan. The urban water supplier may consult with, and obtain comments from, any city or county that receives notice pursuant to this subdivision.*

*10635(b) The urban water supplier shall provide that portion of its urban water management plan prepared pursuant to this article to any city or county within which it provides water supplies no later than 60 days after the submission of its urban water management plan.*

*10642 Prior to adopting a plan, the urban water supplier shall make the plan available for public inspection and shall hold a public hearing thereon. Prior to the hearing, notice of the time and place of the hearing shall be published within the jurisdiction of the publicly owned water supplier pursuant to Section 6066 of the Government Code. The urban water supplier shall provide notice of the time and place of hearing to any city or county within which the supplier provides water supplies. A privately owned water supplier shall provide an equivalent notice within its own service area.*

The Act requires the encouragement of public participation and a public hearing as part of the UWMP development and approval process. As required by the Act, prior to adopting this UWMP, the District made the UWMP available for public inspection and held two public hearings. The District notified cities and counties within the service area 60 days before the public hearings as shown in Table 1-6. Appendix A provides documentation that the city and counties within which the District provides water supplies was notified at least 60 days prior to the UWMP public hearings. The hearings provided an opportunity for the District's customers including social, cultural, and economic community groups to learn about the water supply situation and the plans for providing a reliable, safe, high-quality water supply for the future. The hearings were an opportunity for people to ask questions regarding the current situation and the viability of future plans.

**Table 1-6. (DWR Table 10-1) Retail: Notification to Cities and Counties**

City name	60-day notice	Notice of public hearing
City of Auburn	X	X
City of Grass Valley	X	X
City of Nevada City	X	X
City of Lincoln	X	X
County name	60-day notice	Notice of public hearing
Nevada County	X	X
Placer County	X	X
Yuba County	X	X

Per the requirements of Government Code Section 6066, a Notice of Public Hearing was published twice in The Union, Auburn Journal, and the Appeal Democrat to notify all customers and local governments of the public hearing and copies of the draft UWMP were made available for public inspection at the District's administration building, at local public libraries, and on the District website, [www.nidwater.com](http://www.nidwater.com). A copy of the published Notice of Public Hearing is included in Appendix B. This UWMP was adopted by the District's Board of Directors on May 25, 2016. A copy of the adopted resolution is provided in Appendix C. The adopted UWMP, which includes a copy of

the District's Drought Contingency Plan, will be provided to DWR (hardcopy and electronically) and the appropriate cities and counties within 30 days of adoption, by July 1, 2016. The adopted UWMP will also be available for public review during normal business hours at the District's administrative building.

## **1.5 Plan Organization**

This section provides a summary of the sections in this UWMP.

- Section 2 provides a description of the service area, climate, and projected population.
- Section 3 presents historical and projected water demands.
- Section 4 describes the SBx7-7 gallons per capita per day (GPCD) analysis.
- Section 5 describes the water supplies.
- Section 6 describes water supply reliability.
- Section 7 presents the water shortage contingency plan.
- Section 8 summarizes demand management measures.
- Section 9 provides a list of references.
- Appendices A through L provides relevant supporting documents.

DWR has provided a checklist of the items that must be addressed in each UWMP based upon the Act. This checklist makes it simple to identify exactly where in the UWMP each item has been addressed. The checklist is completed for this UWMP and provided in Appendix D. It references the sections and appendices where specific items can be found.

## Section 2

# System Description

This section contains a description of the service area and its climate, and historical and projected population.

## 2.1 Description of Service Area

*10631(a) Describe the service area of the supplier.*

Located on the western slope of the Sierra Nevada mountain range, the District encompasses 287,000 acres and covers portions of three counties: Nevada, Placer, and Yuba as shown on Figure 2-1. The District's watershed is located on the upper reaches of the Yuba River, Bear River, and Deer Creek. The highest peak in the District is at 8,373-foot elevation at English Mountain. The District transports water from high elevation, mountain reservoirs to the lower elevation foothills and into portions of the northern Sacramento Valley near the City of Lincoln.

Neighboring water utilities are also shown. Defined as "a special district operated by and for the people who own land within its 287,000-acre boundary", the District was established as an irrigation district in 1921. The District is governed by a five-member Board, who are elected by District voters.

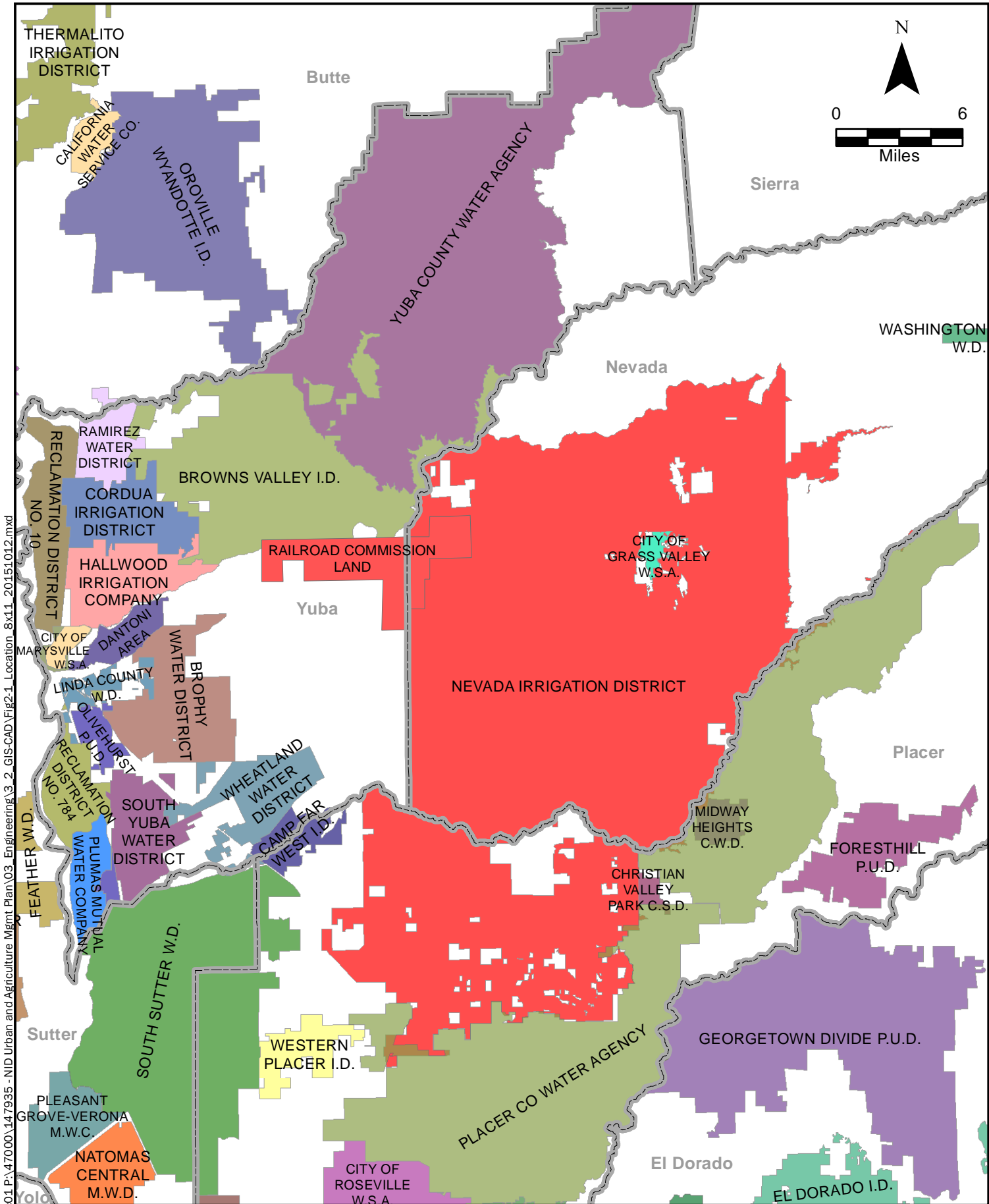
The District supplies treated water for municipal, domestic, and industrial purposes. Water management facilities include storage, treatment, and conveyance facilities. The service areas within the District are shown in Figure 2-2. Some areas within the District are supplied by private water wells or other water agencies. The District also serves nearly 6,000 agricultural customers with an average total reported irrigated acreage of 25,860 acres.

The District's retail potable water system consists of seven service areas as listed in Table 1-1. The retail water system connections are predominantly single-family, but also consist of multi-family, commercial, industrial, and institutional customers.


## 2.2 Service Area Climate

*10631(a) (Describe the service area) climate.*

Summers have been dry with mild to hot temperatures. Winters are relatively wet, especially in the upper elevations around Nevada City and Grass Valley, with snow levels usually above 5,000 ft. Based on the historical data obtained from the California Irrigation Management Information System (CIMIS) and the Western Regional Climate Center (WRCC), the District's service area's average minimum and monthly maximum temperatures are 26 and 93 degrees Fahrenheit, respectively. Table 2-1 summarizes the District's climate conditions in representative areas based on the CIMIS and WRCC databases of monthly averages of historic information. The climate within California and the District is changing. There are adverse effects to the District's operations and facilities. These effects cause a greater need for storage and resource conservation. A discussion of climate change is provided in Section 5.



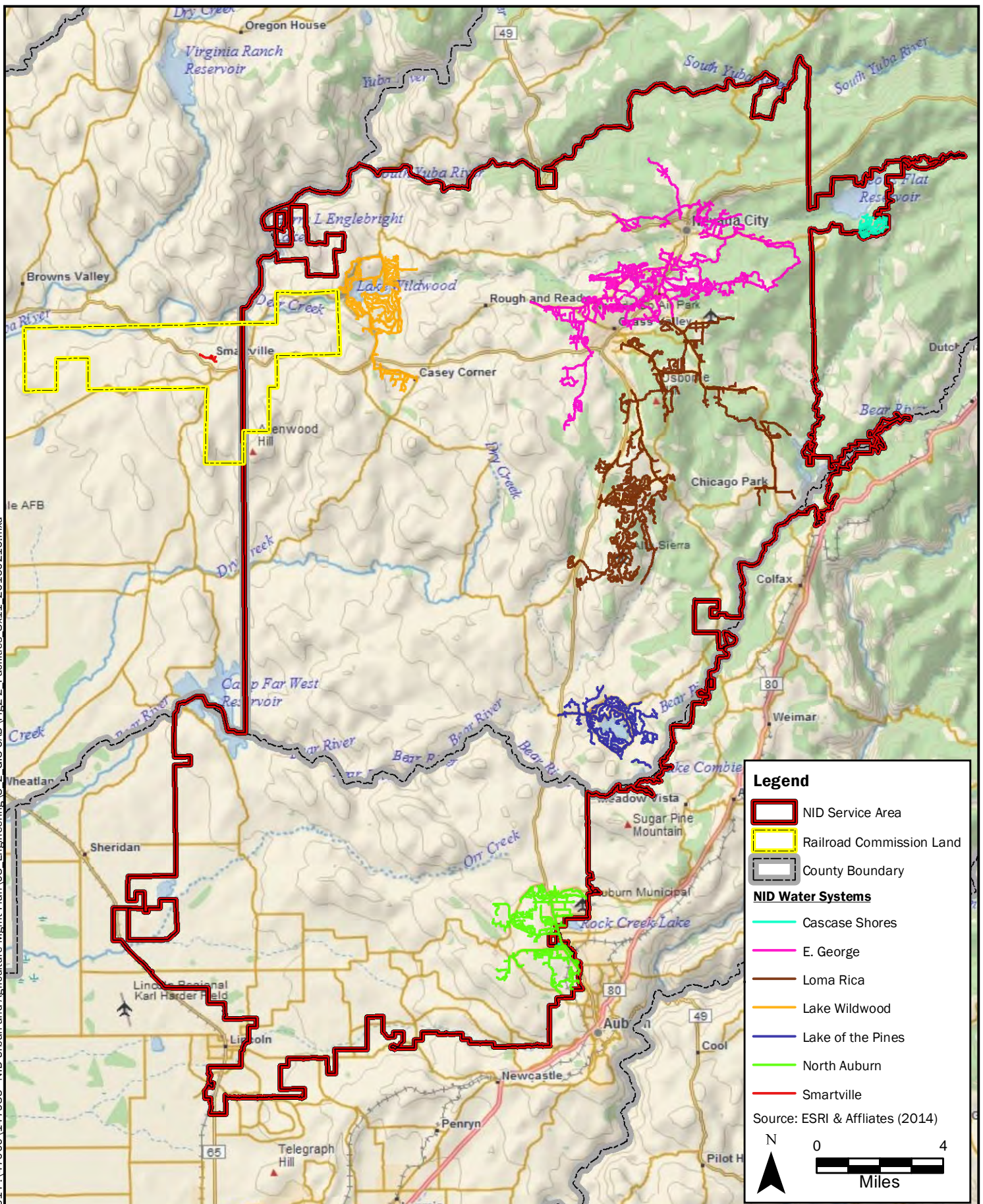
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DATE	2/16/16	PROJECT	147935
			

SITE	<b>Urban Water Management Plan</b>	
TITLE	<b>Location of NID and Neighboring Water Utilities</b>	

**Figure 2-1**





DATE	2/16/16	PROJECT	147935	SITE	
		<b>Brown AND Caldwell</b>		TITLE	

## Urban Water Management Plan

### Treated Water Systems

Figure 2-2

**Table 2-1. District Service Area Historical Average Climate Characteristics**

Location	Elevation, ft	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Wet season (Nov-Mar)	Dry season (Apr-Oct)
<b>Auburn (CIMIS Station No.195, WRCC Station No. 040383) <sup>(a)</sup></b>	<b>935</b>															
Standard average ETo, in		1.4	2.0	3.2	4.6	6.3	7.4	8.1	7.5	5.5	3.6	1.8	1.1	52.4	10	43
Average maximum temperature, °F		54.0	58.3	62.0	68.3	76.2	85.3	92.5	91.5	86.2	76.6	63.2	54.9	72.4	63	93
Average minimum temperature, °F		36.6	39.3	41.4	44.8	50.3	56.5	61.8	61.0	57.3	50.7	42.9	36.8	48.3	37	45
Average rainfall, in		6.71	5.96	5.35	2.70	1.26	0.38	0.05	0.07	0.42	1.78	4.01	5.71	34.39	28	7
<b>Grass Valley No. 2 (WRCC Station No. 043573)<sup>(b)</sup></b>	<b>2,400</b>															
Standard average ETo, in		N/A														
Average maximum temperature, °F		53.4	55.5	57.8	62.3	71.0	79.6	87.4	87.0	82.0	72.5	59.5	53.4	68.4	68	87
Average minimum temperature, °F		32.0	33.6	36.1	38.8	45.3	51.2	55.9	54.6	50.1	42.8	36.1	31.6	42.4	32	39
Average rainfall, in		10.26	8.60	8.11	3.74	1.90	0.65	0.14	0.25	0.89	2.54	7.11	9.16	53.34	43	10
Average snowfall, in		2.2	2.2	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	10.0	9.1	0.8
<b>Nevada City (WRCC Station No. 046136) <sup>(c)</sup></b>	<b>2,780</b>															
Standard average ETo, in		N/A														
Average maximum temperature, °F		50.4	53.2	56.9	63.2	71.3	80.1	88.7	87.7	82.0	71.1	58.3	51.1	67.8	68	89
Average minimum temperature, °F		30.0	31.5	33.5	36.7	42.5	48.2	52.6	51.2	46.9	40.9	34.2	30.8	39.9	30	37
Average rainfall, in		10.09	9.65	7.93	4.31	2.13	0.60	0.05	0.16	0.70	2.73	6.43	9.73	54.51	44	11
Average snowfall, in		6.8	5.0	4.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.5	3.1	20.8	20	0.8
<b>Bowman Dam (WRCC Station No. 041018) <sup>(d)</sup></b>	<b>5,390</b>															
Standard average ETo, in		N/A														
Average maximum temperature, °F		45.0	46.1	49.5	55.2	63.7	72.1	80.0	79.8	73.8	64.1	52.8	46.1	60.7	61	80
Average minimum temperature, °F		26.4	26.6	28.6	32.5	39.2	46.7	53.4	53.2	48.4	41.2	33.4	28.4	38.2	26	33
Average rainfall, in		11.74	10.06	9.09	4.56	3.49	1.24	0.20	0.40	0.90	4.14	8.14	10.83	64.78	50	15
Average snowfall, in		53.1	49.8	48.1	21.2	7.0	0.3	0.0	0.0	0.3	2.6	19.6	39.9	242.0	211	31

N/A = not applicable

<sup>(a)</sup> Period of record is 01/01/1905 to 01/20/2015<sup>(b)</sup> Period of record is 10/1/1966 to 12/31/2005<sup>(c)</sup> Period of record is 1/1/1914 to 12/31/2005<sup>(d)</sup> Period of record is 6/ 1/1896 to 12/31/2014



## 2.3 Historical and Projected Population

*10631(a) Describe the service area of the supplier, including current and projected population . . . The projected population estimates shall be based upon data from the state, regional, or local service agency population projections within the service area of the urban water supplier and shall be in five-year increments to 20 years or as far as data is available.*

The estimate of the District's historical treated water customer population for the year 2000 population and year 2010 population are estimated based on the 2000 Census and 2010 Census, respectively. Because there are a significant number of dwelling units within the District's service area boundary that are served by private wells or other governmental entities, the analysis conducted to determine the District's population in Census years required a detailed evaluation to ensure that the population estimate only includes the population served by the District's retail water distribution system and not population served by other water supplies.

The year 2000 treated water customer population is based on the year 2000 Census using the census block groups. The District's treated water distribution pipeline system Geographic Information System (GIS) layer in conjunction with aerial photo base maps are used to estimate the percentage of each Census block group served by the District's treated water distribution system. The percentage of the each Census block group within the District's service area that are served by the District's treated water system is applied to each block group's total population and number of dwelling units obtained from the Census Bureau's website. A figure illustrating the year 2000 population approach is provided in Appendix E.

The year 2010 treated water customer population is estimated similar to the 2000 population analysis but uses the 2010 Census block data combined with a GIS treated water customer parcel layer that the District GIS staff developed based on customer parcels that were served retail water by the District in 2010. This treated water customer parcel layer is overlaid on the 2010 Census block map and Google aerial photography maps to estimate the percent of each Census block served by the District's treated water system. The percentage of each Census block within the District's service area that are served by the District's treated water system is applied to each Census block total population and number of dwelling units obtained from the Census Bureau's website. Appendix E contains a table of the 2010 Census blocks and correlating estimated percentage of each block served by the District's retail water system as well as the figures developed from this analysis.

The population correlated with single family and multi family connections for 2000 and 2010 are used to develop a ratio of persons per residential connections data for non-census years to estimate non-census year population. Table 2-2 shows the historical estimated population based on the year 2000 and 2010 Census, number of residential connections, and historical population estimates of treated water system customers from 1995 through 2015.

Table 2-2. Estimated Historical Population				
Year	Census based population	Residential connections	Population to connection ratio	Population estimate <sup>(a)</sup>
1995		14,621	2.50	36,536
1996		14,808	2.50	37,004
1997		14,975	2.50	37,420
1998		15,188	2.50	37,953
1999		15,481	2.50	38,686
2000	39,374	15,757	2.50	39,374
2001		16,580	2.53	41,996
2002		16,599	2.57	42,609
2003		16,994	2.60	44,202
2004		17,237	2.64	45,420
2005		17,609	2.67	47,000
2006		17,799	2.70	48,114
2007		17,987	2.74	49,236
2008		18,085	2.77	50,118
2009		17,825	2.81	50,006
2010	49,023	17,265	2.84	49,023
2011		17,377	2.84	49,341
2012		17,425	2.84	49,477
2013		17,498	2.84	49,685
2014		17,607	2.84	49,994
2015		17,697	2.84	50,250

<sup>(a)</sup> Appendix E contains the detailed information used to calculate Census year historical population.

<sup>(b)</sup> The District's residential connections fluctuated from 2005 to 2010 due in large part to the conversion in the District's accounting procedure for residential connection quadplexes. Quadplexes were initially considered four connections until the District converted the connection accounting to consider each quadplex as one connection.

The District's future treated water distribution system population is projected as a range based on a custom annual average growth rates. These growth rates are based on customer growth projections estimated for each of the District's seven potable water service areas as estimated by the District staff.

In addition, there are 1,639 single family dwelling units within the District's service area that are considered standby accounts because they are located in close proximity to District transmission mains but are currently served by private groundwater wells and are not District customers. It is assumed that these dwelling units will eventually become District customers. It is assumed that the population associated with these 1,639 standby accounts is 3,442 based on 2.1 people per dwelling unit from the 2010 census. It is assumed that the population in these accounts will become District customers over the next 20 years at a rate of 5 percent per year.

Additional future potential District population in the unincorporated area near the District's future Valley View Water Treatment Plant (WTP) and outside the City of Lincoln is not included in the projections in this UWMP. Table 2-4 shows the high and low projected population growth. For the demand projections provided in Section 3 of this UWMP, the high population growth projection is utilized.

<b>Table 2-3. Potential Range of Projected Population Growth</b>		
<b>Year</b>	<b>Population <sup>(a)</sup></b>	
	<b>Low growth <sup>(b)</sup></b>	<b>High growth <sup>(c)</sup></b>
2015	50,250	50,250
2020	54,547	57,465
2025	59,080	65,484
2030	63,864	74,409
2035	68,916	84,353
2040	73,395	94,586

*Note: For the purposes of the demand projections provided in Section 3 of this UWMP, the high population growth projection is utilized.*

*<sup>(a)</sup> Service area population is defined as the population served by the treated water distribution system.*

*<sup>(b)</sup> The low annual average growth rate is 1.3 percent for new connections plus the addition of standby accounts.*

*<sup>(c)</sup> The high annual average growth rate is 2.4 percent for new connections plus the addition of standby accounts.*

District population as used for this analysis is expected to reach approximately 94,586 in 2040, as shown in Table 2-4, based on the high growth projection rate. The population annual average growth rate from 2010 to 2015 was approximately 0.5 percent per year. The change in population from approximately 50,250 in 2015 to 94,586 in 2040, is a 2.5 percent average annual growth rate.

<b>Table 2-4. (DWR Table 3-1) Retail: Population- Current and Projected - Used for this UWMP Analysis</b>						
<b>Population served</b>	<b>2015</b>	<b>2020</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>
	50,250	57,465	65,484	74,409	84,353	94,586

Other demographic factors that affect water management planning include the uncertainty in estimating future population growth and per capita water use. The actual population growth that has occurred since the preparation of the 2005 and 2010 Plans has been less than anticipated. The recession that started in 2008 and the accompanying slow down in the construction of dwelling units resulted in population not growing as much as previously estimated. The adoption of 2020 per capita demand targets in 2010 along with the mandated demand reductions announced by the Governor in 2015 due to drought has resulted in a significant decline in per capita water use. Per capita water use may rebound to pre-drought levels once customers consider the drought to be at an end. The uncertainties with both future population and per capita water use are considered in the District's water management planning.

## Section 3

# System Water Use

This section describes the urban water system demands and the resulting projections for future water demands for the District.

### 3.1 Water Use by Sector

*10631(e)(1) Quantify, to the extent records are available, past and current water use, and projected water use (over the same five-year increments described in subdivision (a)), identifying the uses among water use sectors, including, but not necessarily limited to, all of the following uses: (A) Single-family residential; (B) Multifamily; (C) Commercial; (D) Industrial; (E) Institutional and governmental; (F) Landscape; (G) Sales to other agencies; (H) Saline water intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof; (I) Agricultural.*

*10631(e)(2) The water use projections shall be in the same five-year increments described in subdivision (a).*

Table 3-1 presents the current 2015 water uses by sector. The District's customers are all metered and consist of single family and multi-family residential connections, and commercial, industrial, institutional, and landscape non-residential connections. The District sells raw and treated water to the City of Grass Valley, Nevada City, Bitney Springs LLC, Lake Vera Mutual, and Placer County Water Agency (PCWA) (for customers in Lincoln). The District's raw agricultural water demands include water use for crops, environmental uses, and recreational water uses.

Water losses within the District's retail water system includes water used for operational tasks including system flushing and tank draining as well as water lost to system leaks. The District's 2015 water loss audit is described in Section 3.2.

**Table 3-1. (DWR Table 4-1) Retail: Demands for Potable and Raw Water - Actual**

Use type	2015 Actual		
	Additional description (as needed)	Level of treatment when delivered <i>Drop down list</i>	Volume
<i>These are the only Use Types that will be recognized by the WUEdata online submittal tool</i>			
Single Family		Drinking water	5,021
Multi-Family		Drinking water	545
Commercial		Drinking water	743
Industrial		Drinking water	0
Institutional/ Governmental		Drinking water	387
Landscape		Drinking water	146
Groundwater recharge			
Saline water intrusion barrier			
Agricultural irrigation		Raw water	115,989
Wetlands or wildlife habitat			
Sales/Transfers/Exchanges to other agencies	South Sutter Water District	Raw water	0
Sales/Transfers/Exchanges to other agencies	City of Grass Valley Broadview Heights	Drinking water	37
Sales/Transfers/Exchanges to other agencies	City of Grass Valley	Drinking water	24
Sales/Transfers/Exchanges to other agencies	City of Grass Valley	Raw water	917
Sales/Transfers/Exchanges to other agencies	Nevada City	Raw water	254
Sales/Transfers/Exchanges to other agencies	Bitney Springs LLC	Raw water	5
Sales/Transfers/Exchanges to other agencies	Lake Vera Mutual Water Company	Drinking water	17
Sales/Transfers/Exchanges to other agencies	Placer County Water Agency	Raw water	1,498
Losses	Treated water retail distribution system		1,070
Other			
<b>Total</b>			<b>126,653</b>

*Note: It should be noted that the District was operating under a State Water Resources Control Board (SWRCB) 36 percent conservation order during the 2015 reporting period.*



Table 3-2 presents the projected water use by water use sector in five-year increments through 2040. Normal year water demands through 2040 are estimated based on the selected GPCD target that is chosen by NID as described in Section 4 and the projected population (see Table 2-4). The projected demand breakdown by customer category for the District's treated water customers is based on the historical demand breakdown by customer category. Also shown in Table 3-2 is the demand projections for the District's water sales to others, agricultural water use and water losses. These projections are based on the Raw Water Master Plan Update Phase II (NID, 2011) and what has occurred historically. It is anticipated that by the year 2020 NID will no longer provide raw water to PCWA for the City of Lincoln, but rather will provide treated water directly to the City of Lincoln for the customers within the District.

In years when there is a surplus of the District's Pacific Gas and Electric Company (PG&E) water supply (described in Section 5) the District has sold this surplus supply to South Sutter Water District (SSWD). This is PG&E raw water that the District purchases and then sells to SSWD as raw water. This water sale occurred in 2011 through 2013. No water was available to sell to SSWD in 2014 and 2015. The long-term agreement between the District and SSWD to sell this surplus PG&E water as available has recently expired and in the future will be handled by annual agreements.

**Table 3-2. (DWR Table 4-2) Retail: Demands for Potable and Raw Water - Projected**

Use type <i>These are the only Use Types that will be recognized by the WUEdata online submittal tool</i>	Additional description (as needed)	Projected water use <i>Report to the extent that records are available, ac-ft/yr</i>				
		2020	2025	2030	2035	2040
Single Family		8,211	9,249	10,419	11,737	13,221
Multi-Family		924	1,041	1,172	1,321	1,488
Commercial		1,140	1,285	1,447	1,630	1,836
Industrial		-	-	-	-	-
Institutional/Governmental		733	825	930	1,047	1,180
Landscape		223	251	283	319	359
Groundwater recharge						
Saline water intrusion barrier						
Agricultural irrigation		162,131	168,778	174,250	178,435	182,620
Wetlands or wildlife habitat						
Sales/Transfers/Exchanges to other agencies	South Sutter Water District	-	-	-	-	-
Sales/Transfers/Exchanges to other agencies	City of Grass Valley Broadview Heights	50	50	50	50	50
Sales/Transfers/Exchanges to other agencies	City of Grass Valley	50	50	50	50	50
Sales/Transfers/Exchanges to other agencies	City of Grass Valley	1,300	1,300	1,350	1,350	1,350
Sales/Transfers/Exchanges to other agencies	Nevada City	400	400	400	400	400
Sales/Transfers/Exchanges to other agencies	Bitney Springs LLC	6	6	6	6	6
Sales/Transfers/Exchanges to other agencies	Lake Vera Mutual Water Company	20	20	20	20	20
Sales/Transfers/Exchanges to other agencies	Placer County Water Agency (a)	-	-	-	-	-
Sales/Transfers/Exchanges to other agencies	City of Lincoln (a)	2,484	3,300	4,116	4,932	4,932
Losses	Treated water retail distribution system (10 percent loss assumed)	1,248	1,406	1,583	1,784	2,009
Other						
<b>Total</b>		<b>178,919</b>	<b>187,960</b>	<b>196,076</b>	<b>203,080</b>	<b>209,521</b>

<sup>(a)</sup> By the year 2020, the District will no longer provide raw water to Placer County Water Agency for City of Lincoln, but rather will provide treated water directly to City of Lincoln.

Table 3-3 summarizes the current and projected demands for potable, recycled, and raw water usage by the District. The District's current and projected use of recycled water is described in Section 5.

<b>Table 3-3. (DWR Table 4-3) Retail: Total Water Demands, ac-ft/yr</b>						
	<b>2015</b>	<b>2020</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>
Potable and Raw Water (From DWR Tables 4-1 and 4-2)	126,653	178,919	187,960	196,076	203,080	209,521
Recycled Water Demand <sup>(a)</sup>	0	0	0	0	0	0
Total water demand	126,653	178,919	187,960	196,076	203,080	209,521

<sup>(a)</sup> Recycled water shown in DWR Table 6-4 (Table 5-4 in this UWMP) is not a retail demand and is not included in this table.

## 3.2 Distribution System Water Losses

10631 (e) (1) and (2) Quantify, to the extent records are available, past and current water use over the same five-year increments described in subdivision (a), and projected water use, identifying the uses among water use sectors, including, but not necessarily limited to, all of the following uses:....(J) Distribution system water loss.

10631 (e) (3) (A) For the 2015 urban water management plan update, the distribution system water loss shall be quantified for the most recent 12-month period available. For all subsequent updates, the distribution system water loss shall be quantified for each of the five years preceding the plan update.

(B) The distribution system water loss quantification shall be reported in accordance with a worksheet approved or developed by the department through a public process. The water loss quantification worksheet shall be based on the water system balance methodology developed by the American Water Works Association.

Water losses in the District's water system in 2015 are presented in Table 3-4. The District's water distribution system consists of approximately 400 miles of distribution pipelines and transmission mains. A detailed distribution system water loss analysis following the DWR Water Audit Manual (DWR, 2015) is provided in Appendix F. The water audit is an accounting exercise that tracks all sources and uses of water within a water system over a specified period.

<b>Table 3-4. (DWR Table 4-4) Retail: 12-Month Water Loss Audit Reporting</b>	
<b>Reporting period start date (month/year)</b>	<b>Loss</b>
January 1, 2015	149.7 MG/yr (459 ac-ft/yr)

*Note: Loss value is from the water losses field of the water audit reporting worksheet. It is a combination of the apparent losses and real losses and does not include unbilled metered and unbilled unmetered water uses.*

### 3.3 Estimating Future Water Savings

10631 (e)(4)

(A) If available and applicable to an urban water supplier, water use projections may display and account for the water savings estimated to result from adopted codes, standards, ordinances, or transportation and land use plans identified by the urban water supplier, as applicable to the service area.

(B) To the extent that an urban water supplier reports the information described in subparagraph (A), an urban water supplier shall do both of the following: (i) Provide citations of the various codes, standards, ordinances, or transportation and land use plans utilized in making the projections. (ii) Indicate the extent that the water use projections consider savings from codes, standards, ordinances, or transportation and land use plans. Water use projections that do not account for these water savings shall be noted of that fact.

Water savings from codes, standards, ordinances, or transportation and land use plans are also known as “passive savings”. These various factors generally decrease the water use for new and future customers, compared to historical customers. Below is a summary of the applicable state codes and ordinances that could reduce the District’s water demand in the future based on information provided in the DWR 2015 UWMP Guidebook (DWR, 2016).

Model Water Efficient Landscape Ordinance – Effective on December 1, 2015, this new ordinance is projected to reduce the typical residential outdoor landscape demands for new construction by up to 20 percent from the estimated demand using the prior ordinance provisions. Commercial landscape for new construction may reduce outdoor water demand by up to 35 percent over the prior ordinance.

California Energy Commission Title 20 appliance standards for toilets, urinals, faucets, and showerheads – This standard will impact both new construction and replacement fixtures in existing homes. This is included in the CALGreen assumption for new construction described below. Assume up to 5 percent reduction in indoor water use of existing homes.

CALGreen Building Code – Requires residential and non-residential water efficiency and conservation measures for new buildings and structures. It is assumed that this code will reduce residential and non-residential indoor water on new construction by up to 20 percent.

Based on these assumed reductions in water use by customer sector it is estimated that the District could realize approximately 1,000 ac-ft/yr passive water savings by 2040. Regarding GPCD, this is approximately 9 GPCD in passive water savings by 2040 from these codes and ordinances. The water use projections in this analysis do not account for these passive water savings that may be realized from these codes and ordinances, as stated in Table 3-5.

**Table 3-5. (DWR Table 4-5). Retail Only: Inclusion in Water Use Projections**

Future Water Savings Included Y/N	No
If "Yes" to above, state the section or page number where citations of the codes, ordinances, etc... utilized in demand projections are found.	Location in UWMP _____
Lower Income Residential Demands Included	Yes

### 3.4 Water Use for Lower Income Households

10631.1(a) The water use projections required by Section 10631 shall include projected water use for single-family and multifamily residential housing needed for lower income households, as defined in Section 50079.5 of the Health and Safety Code, as identified in the housing element of any city, county, or city and county in the service area of the supplier.

Lower income residential demands are included in the District's demand projections, as shown in Table 3-5. Based on the Housing Element of the Nevada County General Plan (Nevada County, 2014), 48 percent of the population are low income. These include very-low and low-income dwelling units which are up to 80 percent of the median income. For Placer County, 26% of the population is low income (Placer County, 2013).

Using the Disadvantaged Community (DAC) Mapping Tool provided by DWR, Census blocks where the median income is less than 80% of the state median income are shown on the screen capture provided on Figure 3-1. The majority of the lower income households are located in urban cities that are densely populated or the rural locations in the northeast part of the county where population density is low.

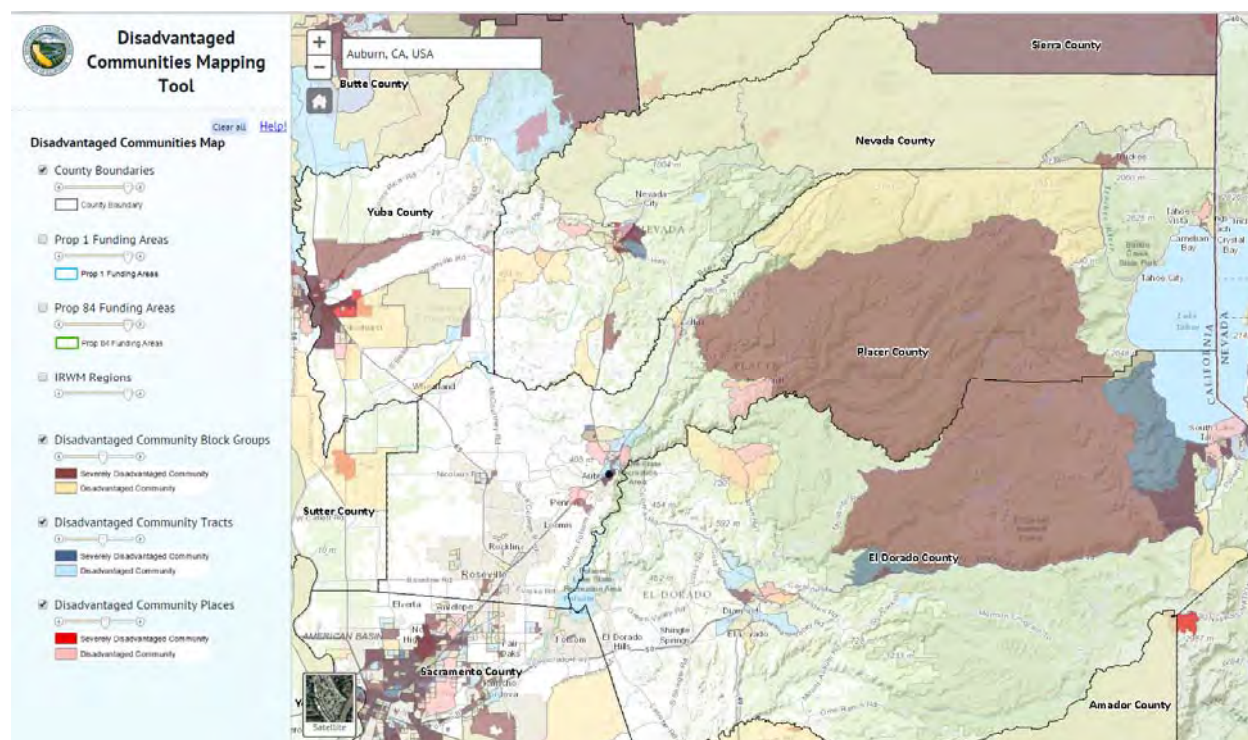


Figure 3-1. Disadvantaged Communities Map for District Area



## Section 4

# SBX7-7 Baseline and Targets

This section describes the District's SBX7-7 GPCD baseline and targets as updated from the analysis conducted as part of the 2010 UWMP. Compliance with the 2015 interim target is also discussed.

## 4.1 Updating Calculations from 2010 UWMP

*10608.20(g) An urban retail water supplier may update its 2020 urban water use target in its 2015 urban water management plan required pursuant to Part 2.6 (commencing with Section 10610).*

*Methodologies DWR 2011, Methodology 2 Service Area Population, Page 27. Water suppliers may revise population estimates for baseline years between 2000 and 2010 when 2010 census information becomes available. DWR will examine discrepancy between the actual population estimate and DOF's projections for 2010; if significant discrepancies are discovered, DWR may require some or all suppliers to update their baseline population estimates.*

GPCD water use or daily per capita water use, as defined in this UWMP, is the amount of water used per person per day. This is total water use within a service area including commercial, industrial, and irrigation uses, minus allowable exclusions, divided by population and measured in gallons. This is different from the R-GPCD used in drought reporting to the State Water Resources Control Board. R-GPCD is residential water use in a service area divided by population. The residential water use includes single family and multi-family residential water uses.

The District's 2010 UWMP provided calculations and a resulting 2015 and 2020 GPCD target based on the DWR methodology (DWR, 2011). Since the 2010 UWMP the 2010 Census data is now available. Also, since the 2010 UWMP, DWR has developed additional forms and tools the District is required to use for this updated SBX7-7 analysis. DWR developed SBX7-7 verification forms tables for the District to complete with the updated Census data to determine the updated SBX7-7 baseline and target GPCD. The District's completed verification forms are provided in Appendix G of this UWMP.

## 4.2 Baseline Periods

*10608.20(e) An urban retail water supplier shall include in its urban water management plan due in 2010... the baseline daily per capita water use, ... along with the basis for determining those estimates, including references to supporting data.*

*10608.20(g) An urban retail water supplier may update its 2020 urban water use target in its 2015 urban water management plan required pursuant to Part 2.6 (commencing with Section 10610).*

In this 2015 UWMP, the District has changed the years selected for their baseline period as compared to their 2010 UWMP based on changes to the District's calculated population. The change in calculated population, described in Section 2.3, affects the baseline and target GPCD values. Water use GPCD is to be calculated and reported for two baseline periods. The 10-year or 15-year baseline (baseline GPCD) and the 5-year baseline (target confirmation).

### 4.2.1 10-15 Year Baseline Period (Baseline GPCD)

*10608.12 (b) "Base daily per capita water use" means any of the following:*



- (1) *The urban retail water suppliers estimate of its average gross water use, reported in gallons per capita per day and calculated over a continuous 10-year period ending no earlier than December 31, 2004, and no later than December 31, 2010.*
- (2) *For an urban retail water supplier that meets at least 10 percent of its 2008 measured retail water demand through recycled water that is delivered within the service area of an urban retail water supplier or its urban wholesale water supplier, the urban retail water supplier may extend the calculation described in paragraph (1) up to an additional five years to a maximum of a continuous 15-year period ending no earlier than December 31, 2004, and no later than December 31, 2010.*

The District must define a 10- to 15-year baseline period ending between December 31, 2004, and December 31, 2010, for water use and calculate the average water use, in GPCD, over that length of time. Whether an agency uses a 10-year baseline period or 15-year baseline period is dependent upon the amount of recycled water use in 2008. Because the District did not use recycled water in the treated water system in 2008, the District must use a 10-year baseline period. The District's selected 10-year baseline period is now 1995 to 2004 because the average GPCD during this time period results in the highest 10-year average GPCD occurring from 1995 to 2010, as shown in Table 4-1. This 10-year baseline period is updated from the 2010 UWMP analysis which used a baseline period from 1999 to 2008.

**Table 4-1. Baseline Period Analysis**

Year	Population estimate (from Table 2-2)	Historical production, ac-ft/yr	GPCD	10-year average GPCD	5-year average GPCD
1995	36,536	9,216	225		
1996	37,004	9,861	238		
1997	37,420	10,326	246		
1998	37,953	9,574	225		
1999	38,686	11,396	263		
2000	39,374	11,364	258		
2001	41,996	12,505	266		
2002	42,609	12,654	265		
2003	44,202	11,941	241		
2004	45,420	11,841	233	246	
2005	47,000	11,275	214	245	
2006	48,114	11,310	210	242	
2007	49,236	13,198	239	241	227
2008	50,118	13,285	237	243	227
2009	50,006	11,863	212	237	222
2010	49,023	10,358	189	231	217



### 4.2.2 5-Year Baseline Period (Target Confirmation)

*10608.12 (b) (3) For the purposes of Section 10608.22, the urban retail water supplier's estimate of its average gross water use, reported in gallons per capita per day and calculated over a continuous five-year period ending no earlier than December 31, 2007, and no later than December 31, 2010.*

The District must also calculate water use, in GPCD, for a 5-year baseline period. This is used to confirm that the selected 2020 target meets the minimum water use reduction requirements. This is a continuous 5-year period that ends no earlier than December 31, 2007, and no later than December 31, 2010. This is utilized as a check against the District's selected GPCD target method. If the District's selected GPCD target method results in a GPCD target that is greater than 95 percent of the 5-year base daily per capita range, then the District's target shall be 95 percent of their 5-year base daily per capita range. The District's 5-year baseline period is 2003 to 2007, as shown in Table 4-1. This is updated from the 2010 UWMP 5-year baseline period of 2004 to 2008.

## 4.3 Service Area Population

*10608.20 (e) An urban retail water supplier shall include in its urban water management plan due in 2010. . . the baseline per capita water use ,...along with the bases for determining those estimates, including references to supporting data*

*10608 (f) When calculating per capita values for the purposes of this chapter, an urban retail water supplier shall determine population using federal, state, and local population reports and projections.*

To calculate the annual baseline GPCD, the District must determine the population that they served for each baseline year in both the baseline periods and for the 2015 compliance year. The District conducted this baseline population analysis as part of the 2010 UWMP based on the year 2000 Census. The year 2010 Census data was not available until after the 2010 UWMP submittal deadline. For this 2015 UWMP, the District is required to re-calculate its baseline population using 2010 Census data. As a result of this analysis update, described in detail in Section 2.3, using the 2010 Census, the historical population served by the District is modified as shown in Table SBX7-7 Table 3, located in Appendix G.

## 4.4 Gross Water Use

*10608.12 (g) Gross Water Use" means the total volume of water, whether treated or untreated, entering the distribution system of an urban retail water supplier, excluding all of the following:*

- (1) Recycled water that is delivered within the service area of an urban retail water supplier or its urban wholesale water supplier*
- (2) The net volume of water that the urban retail water supplier places into long term storage*
- (3) The volume of water the urban retail water supplier conveys for use by another urban water supplier*
- (4) The volume of water delivered for agricultural use, except as otherwise provided in subdivision (f) of Section 10608.24.*

*California Code of Regulations Title 23 Division 2 Chapter 5.1 Article Section 596 (a) An urban retail water supplier that has a substantial percentage of industrial water use in its service area is eligible to exclude the process water use of existing industrial water customers from the calculation of its gross water use to avoid a disproportionate burden on another customer sector.*

Gross water use is the measure of water that enters the District's distribution system over a 12-month period with certain allowable exclusions. These allowable exclusions are recycled water delivered within the service area, indirectly recycled water, water placed into long-term storage, water conveyed to another urban supplier, water delivered for agricultural use, and process water. The District's gross water use is shown in Table SBX7-7 Table 4 located in Appendix G.

## 4.5 Per Capita Water Use

The District's baseline and target per capita water use are described in this section.

### 4.5.1 Baseline Daily Per Capita Water Use

The daily per capita water use for each year from 1995 through 2010 is calculated by dividing the gross water use for each year by the service area population for each year. The District's historical gross water and population are used to calculate the baseline daily per capita use in GPCD in Table SBX7-7 Table 5, located in Appendix G. The resulting 5-year and 10-year baselines are shown in Table SBX7-7 Table 6, located in Appendix G. The updated 10-year baseline period per capita water use is 246 GPCD. The updated 10-year baseline period is slightly less than the 2010 UWMP analysis which used a baseline average per capita use of 254 GPCD. The updated 5-year base period per capita use is 227 GPCD, which is less than the 2010 5-year base per capita use of 245 GPCD. The historical GPCD for the District has decreased since the 2010 UWMP analysis because the baseline population has somewhat increased, as described in Section 2.3.

### 4.5.2 2015 and 2020 GPCD Targets

*10608.20 (e) An urban retail water supplier shall include in its urban water management plan due in 2010...urban water use target, interim urban water use target,...along with the bases for determining those estimates, including references to supporting data (10608.20(e)).*

*10608.20 (g) An urban retail water supplier may update its 2020 urban water use target in its 2015 urban water management plan...*

Per the law as adopted in SBx7-7, the District must establish per capita water use targets using one of four methods

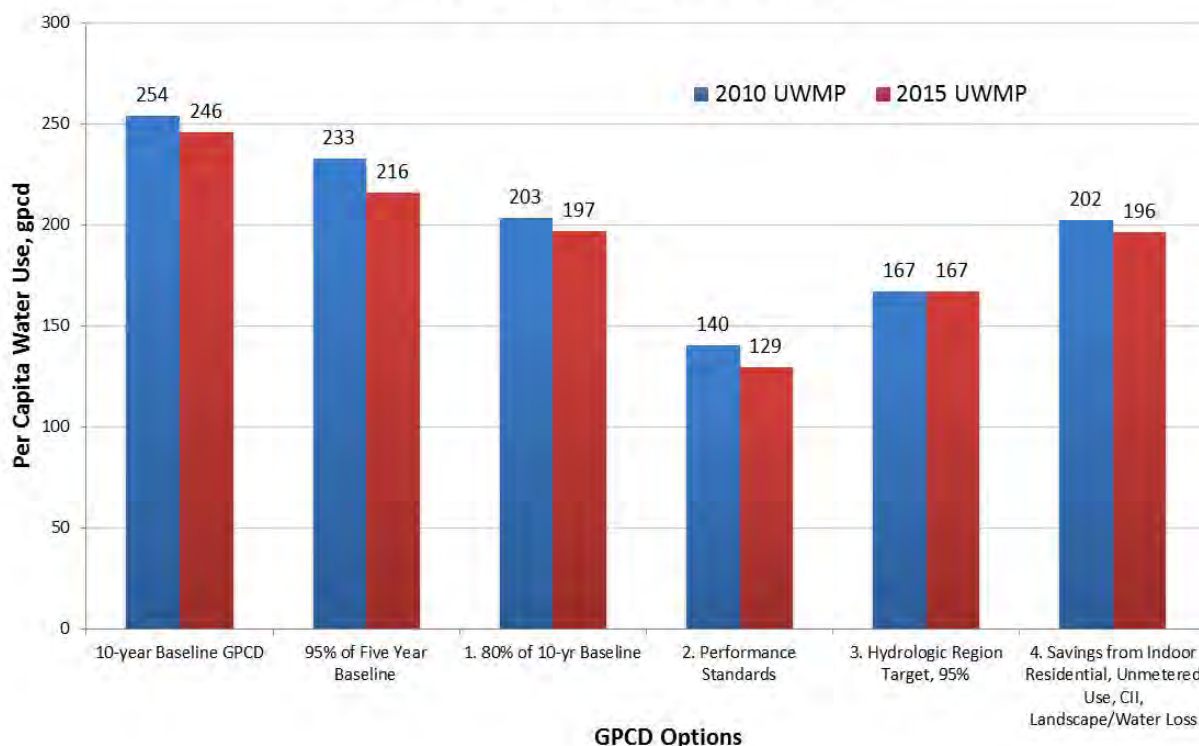
2. Method 1 - Eighty percent of the urban retail supplier's baseline per capita daily water use.
3. Method 2 - The per capita daily water use that is estimated using the sum of several defined performance standards.
  - a) 55 gallons per day (gpd) for indoor residential water use.
  - b) Water efficiency equivalent to the standards of the Model Water Efficient Landscape Ordinance for landscape irrigated through dedicated or residential meters or connections.
  - c) A 10 percent reduction in commercial, industrial, and institutional (CII) uses from the baseline CII water use by 2020.
4. Method 3 - Ninety-five percent of the applicable state hydrologic region target, as outline in the State's draft 20x2020 Water Conservation Plan.
5. Method 4 - Calculated water savings based on indoor residential water savings, metering savings, CII savings, and landscape and water loss savings, as outline in DWR's Provisional Method 4 for Calculating Urban Water Use Targets, released February 2011.

Regardless of which of the four methods is adopted by the District, the target is compared to 95 percent of the District's five-year baseline to achieve a minimum water use GPCD target. If the five-year baseline water use is more than 100 GPCD, the District must compare two values:

1. 95 percent of the five-year baseline daily per capita water use and
  2. The target determined by the target method the District selects from the four methods allowed.
- The 2020 target is the lower of the two values.

The District evaluated which method to use to determine their urban water use target based on the method resulting in the highest calculated per capita target. Method 1 is a simple calculation to determine the per capita target (80 percent of the baseline GPCD) and Method 3 is simply a lookup value based on the District's state hydrologic region (Sacramento River Hydrologic Region). Method 2 and 4 are more complex calculations. For Method's 2 and 4, the inputs from the 2010 UWMP were updated for minor changes in the baseline population, connections, and per capita use. Figure 4-1 summarizes the 2010 UWMP per capita results compared to the updated per capita targets for Methods 1, 2, 3, and 4.

In the 2010 UWMP the District selected Method 1 to determine their urban water use target. Based on Method 1 in the 2010 UWMP, NID's 2020 target was 203 GPCD with an interim 2015 target of 229 GPCD. In this 2015 UWMP GPCD analysis, with the updated historical population analysis incorporating the 2010 Census data described in Section 2, the District has selected to remain with Method 1, which now provides a 2020 target of 197 GPCD with an interim 2015 target of 222 GPCD. A summary of the District's baseline and targets is provided in Table 4-2. The District's interim urban water use target is the value halfway between the 10-year baseline GPCD (from Table SBX7-7 Table 5, located in Appendix G) and the confirmed 2020 GPCD target (from Table SBX7-7 Table 7, located in Appendix G).



**Figure 4-1. Comparison of 2010 UWMP and Updated 2015 UWMP GPCD Target Analysis Results**

**Table 4-2. (DWR Table 5-1) Baselines and Targets Summary  
Retail Agency or Regional Alliance Only**

Baseline period	Start years	End years	Average GPCD	2015 Interim Target	Confirmed 2020 Target
10-15 year	1995	2004	246	222	197
5 Year	2003	2007	227		

### 4.5.3 Adjustments to 2015 Gross Water Use

In 2015 (and 2020) there are allowable adjustments that can be made to the District's gross water use for extraordinary events, economic adjustments, or weather normalization. The District did not adjust their 2015 gross water use, as shown in Table 4-3. Also shown in Table 4-3, the District achieved the targeted reduction for 2015. It is expected that the District's actual GPCD will increase from the 2015 actual values in the future assuming drought conditions and arbitrary State conservation regulations do not continue. The District is on track to meet its 2020 target.

**Table 4-3. (DWR Table 5-2) 2015 Compliance  
Retail Agency or Regional Alliance Only <sup>(a)</sup>**

Actual 2015 GPCD	2015 Interim target GPCD	Optional Adjustments to 2015 GPCD Enter "0" for adjustments not used <i>From Methodology 8</i>					2015 GPCD (Adjusted if applicable)	Did supplier achieve targeted reduction for 2015? Y/N
		Extraordinary events	Economic adjustment	Weather normalization	Total adjustments	Adjusted 2015 GPCD		
141	222	0	0	0	0	141	141	YES

<sup>(a)</sup>All values are in gallons per capita per day (GPCD)

## Section 5

# System Supplies

This section describes sources of available water, quantities, and future sources of water. Also, this section describes impacts due to climate change. Water supply for the District is currently derived from rain and mountain snowpack from Northern California's Sierra Nevada Mountains. Groundwater is not an existing nor is it a planned source of water available to the District.

### 5.1 Purchased Water

The District's contracted purchase from PG&E is a surface water supply that generally originates from the same watershed as the District water rights surface water supply described in Section 5.3. The maximum amount available for District purchase is 54,361 ac-ft with reductions in dry years based on the Sacramento Valley Index (SVI).

### 5.2 Groundwater

*10631(b) (Is) groundwater...identified as an existing or planned source of water available to the supplier*

The District does not utilize groundwater as an existing or planned source of water supply due to limited groundwater availability. The majority of the District has no groundwater aquifer per California Department of Water Resources Bulletin 118 except the very small portion of the District's service area in Lincoln, which is on the eastern boundary of the Sacramento River Basin, North American Sub-Basin.

### 5.3 Surface Water

The District's primary source of supply is local surface water derived principally from the Yuba River, Bear River, and Deer Creek watersheds that is diverted and stored under the District's pre-1914 and post-1914 appropriative water rights. The water rights allow for a diversion of 450,000 ac-ft. The District has an extensive system of storage reservoirs that provides surface water supply to the District's seven water treatment plants as well as to the raw water customers.

This section provides a description of the District's water rights surface water supply. The water rights surface water supply falls into two main categories:

- Watershed runoff
- Carryover storage in surface reservoirs

The District was originally organized for the purpose of storing and delivering irrigation water to farmers and ranchers. In the early 1920's the District acquired storage and regulating facilities in the upper reaches of the Yuba River. In 1926, the District acquired most of its Canyon Creek holdings including the Bowman, Sawmill, French, and Faucherie Reservoirs. Associated water rights were also obtained. Deer Creek water rights were obtained in the 1920's for the development of Scott's Flat Reservoir.

**Watershed Runoff:** Watershed runoff is the District's primary water supply. This category of supply includes water rights to runoff produced by the District's watersheds during the water year. District water rights include 25 pre-1914 rights acquired from mining interests, along with 28 post-1914

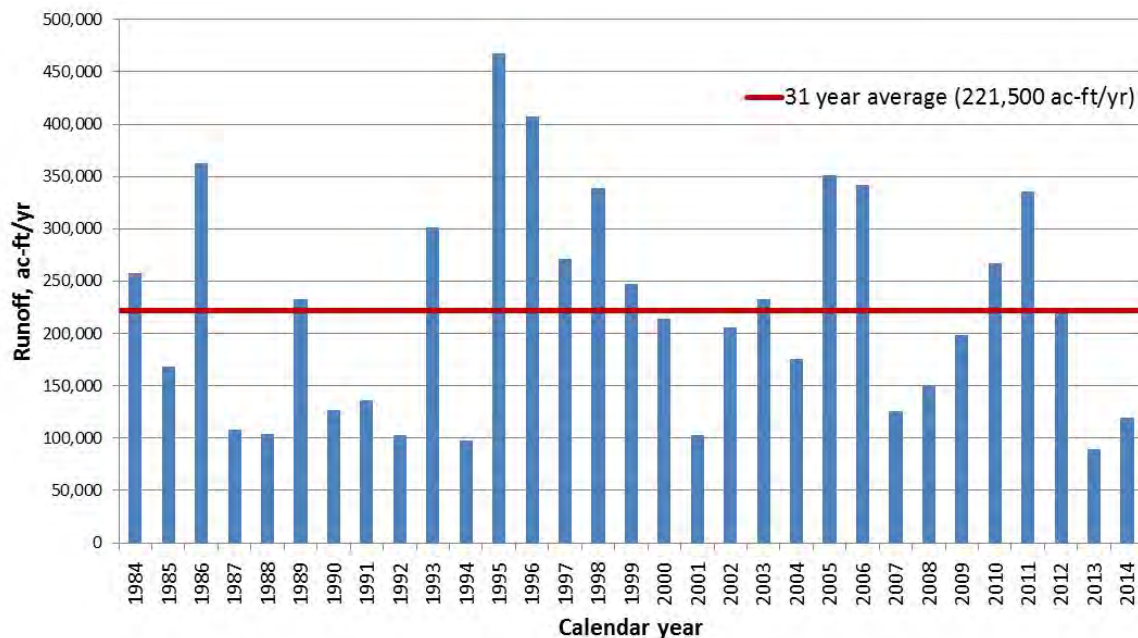
rights filed with the State of California to provide for domestic, municipal, industrial, recreational, power, and irrigation uses, and three riparian rights. These include rights for both consumptive and power purposes. The total water right volumes consist of storage rights, direct diversion rights, and some are a combination of both. The total quantity estimated for diversion and/or storage under current consumptive water rights totals approximately 450,000 ac-ft on an annual basis.

The amount of runoff and the manner in which it is used depends upon the amount of water contained in the snowpack and the rate at which the snowpack melts. The most prominent and obvious cause for the fluctuation in natural runoff is the variability in hydrologic conditions, as seen in the wide variations in annual rainfall/snowpack accumulations. Over the last 30 years runoff has fluctuated from less than 77,378 ac-ft in a dry year (2015) to over 467,000 ac-ft in wet years (1995). Average runoff from the Upper Division watershed, including the watershed area feeding Scotts Flat Reservoir, is approximately 221,500 ac-ft. Due to provisions in the PG&E Coordinated Operations Agreement, hydrologic variability, and the fact that the District is not the senior water right holder no supplies are assumed to be available from the Bear River and South Yuba River. The historical runoff data evaluated to estimate the District's average runoff supply, as shown on Figure 5-1, therefore do not include supplies from the Bear River and the South Yuba River, and is based on runoff data from the water supply in the District watershed including Middle Yuba River, Canyon Creek, Texas Creek, Fall Creek and Deer Creek. The District is likely to receive some water from the Bear River and South Yuba River sources in dry years. Due to the uncertainty of the amount of supply available from these two sources and because the District is not the senior water rights holder, it has not been quantified in this UWMP.

The system of storage reservoirs and conduits used to transport water to the District's service area boundary are referred to as the Upper Division. The Upper Division is operated in conjunction with PG&E under the terms of a joint agreement. In periods of normal precipitation, ample runoff is available for power production. Conversely, power production is sacrificed to avoid supply deficiencies during dry years. Figure 5-1 shows the recorded watershed runoff data since 1990 and compares it to the 31-year average.

The District's Yuba-Bear Project's Federal Energy Regulatory Commission (FERC) license (No. 2266) expired in July 2013. The Project is presently undergoing relicensing. There is the potential for increased environmental flow requirements, which will impact water supply. The District is working to minimize these impacts especially in dry years however it could be until issuance of the new license before the actual impacts are known.





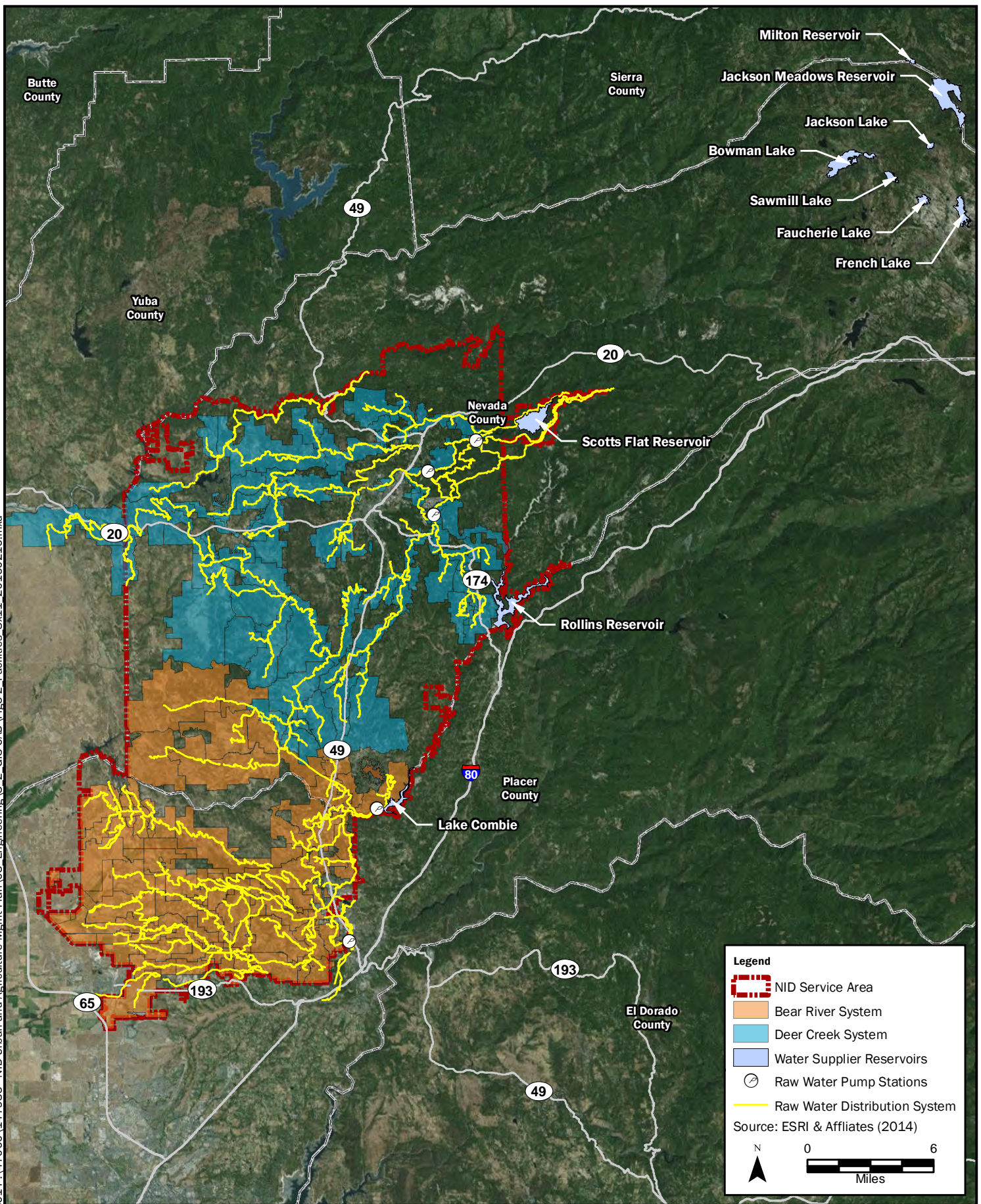
Note: Includes Middle Yuba River, Canyon Creek, Texas Creek, Fall Creek and Deer Creek. Does not include Bear River or South Yuba due to PG&E contract provisions, and hydrological and water rights considerations.


**Figure 5-1. District Historic Watershed Runoff**

**Carryover Storage:** The second largest component of District's supply is carryover storage, which is the volume of water left in storage reservoirs at the end of the irrigation season, usually at the end of September. The District's main storage reservoirs can contain a maximum of 279,985 ac-ft of water as shown in Table 5-1. The two major distribution and storage systems within the District are the Deer Creek System and the Bear River System. These systems are a mixture of canals, siphons, pipelines, and other water conveyance structures. The locations of the reservoirs are shown on Figure 5-2.



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TITLE		

## Urban Water Management Plan

### District Raw Water System

**Figure 5-2**



Carryover storage should be held at a level not less than 78,000 ac-ft. This includes a total 30,900 ac-ft of minimum pool requirements reserved for environmental needs and dead storage volume (includes siltation estimates) that cannot be counted upon as a supply resulting in an available storage capacity of 201,985 ac-ft. This value is updated from recent bathymetry at Rollins, Jackson Meadows, and Bowman reservoirs. Figure 5-3 shows the usable carryover storage since 1968 and compares it to the 47-year average.

<b>Table 5-1. Water Supply Reservoirs</b>	
<b>Reservoir</b>	<b>Capacity, ac-ft</b>
Jackson Meadows	69,205
Bowman	68,510
Jackson Lake	1,330
Sawmill	3,030
Faucherie	3,980
French	13,840
Rollins	65,988
Scotts Flat	48,547
Combie	5,555
<b>Total capacity</b>	<b>279,985</b>

*Source: District web site*

The water supply is dependent on snowmelt and rain to fill storage reservoirs, and the District manages its system based on the timing of those events. While there may be limited natural runoff during normal summer months, the irrigation season (April 15–October 14) demand is met primarily with withdrawals from storage reservoirs. Careful management and operation of the storage reservoirs is necessary to capture the maximum amount of runoff, minimize spillage from the reservoirs, yet insure there is sufficient volume available in the reservoirs to accommodate runoff during the spring snow melt and storm events. The District's reservoirs are slowly being filled with sediment and water storage is being displaced. The District is currently studying viable options for removal of this material.

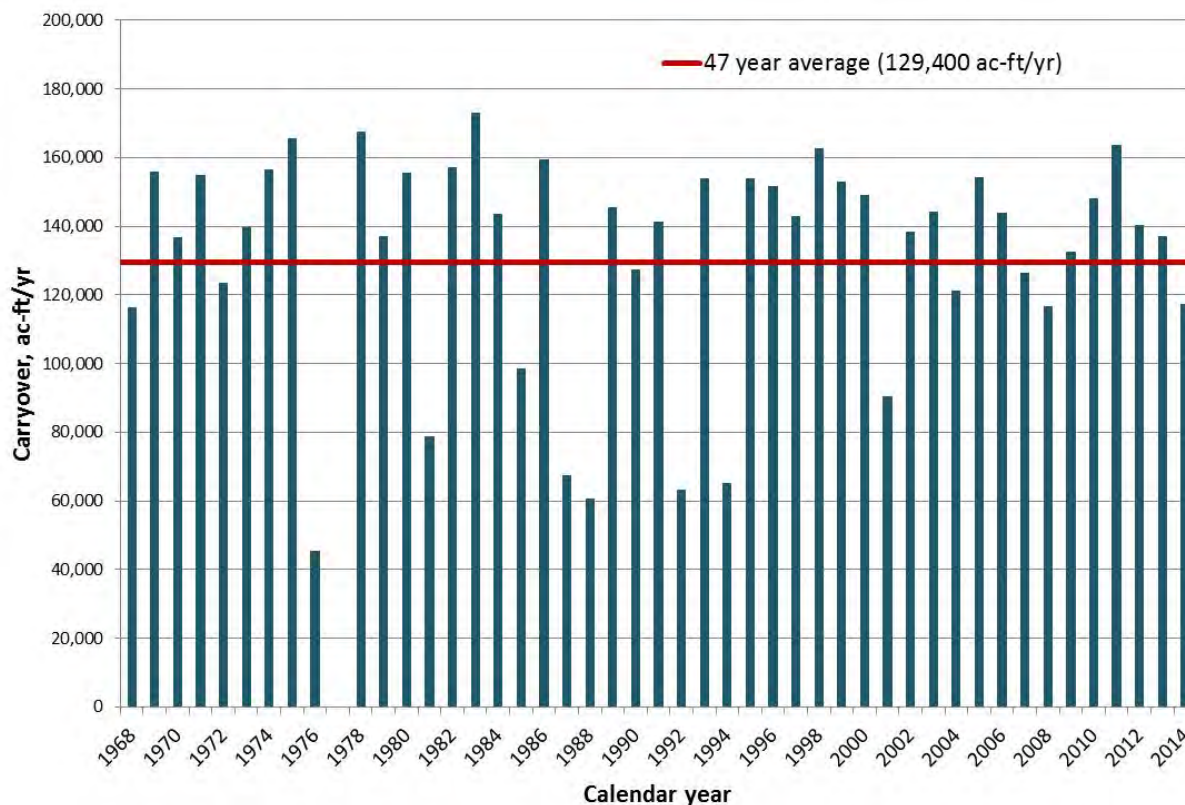


Figure 5-3. District Historic Reservoir Carryover Storage

## 5.4 Stormwater

The District currently has a policy not to accept stormwater runoff into canals without the appropriate collection rights. Please refer to the District's current storm water policy as described in District Policy #6655, provided in Appendix H.

## 5.5 Wastewater and Recycled Water

*10633 The plan shall provide, to the extent available, information on recycled water and its potential for use as a water source in the service area of the urban water supplier. The preparation of this plan shall be coordinated with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area.*

Municipal recycled water is municipal wastewater that has been treated to a specified quantity to enable it to be used again for beneficial purposes. For the purpose of this UWMP recycled water means only municipal recycled water, that is, water that has been treated and discharged from a municipal wastewater facility. This section describes the wastewater collection, treatment, and disposal and recycled water coordination within the District's water service area.

### 5.5.1 Recycled Water Coordination

There are four agencies responsible for collecting, treating, and discharging treated wastewater within the District's service area: Nevada City, Grass Valley, Auburn, and Placer County. The District has no authority or control over municipal wastewater generated in the District's service area. The District is currently receiving recycled water from these four municipal wastewater treatment plants.

The District understands that reuse is an important element of integrated water supply planning, and supports the development and continued use of a reuse supply component.

## 5.5.2 Wastewater Collection, Treatment, and Disposal

10633(a) (Describe) the wastewater collection and treatment systems in the supplier's service area, including a quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.

This section describes how wastewater in the District water service area is collected, treated, as well as discharged.

### 5.5.2.1 Wastewater Collected within Service Area

Municipal wastewater is generated within the District from a combination of residential and commercial sources. Estimates of the wastewater flows generated within the District in 2015 are presented in Table 5-2.

**Table 5-2. (DWR Table 6-2) Wastewater Collected Within Service Area in 2015**

There is no wastewater collection system. The supplier will not complete the table below.						
90 <sup>(a)</sup>	Percentage of 2015 service area covered by wastewater collection system (optional)					
90 <sup>(a)</sup>	Percentage of 2015 service area population covered by wastewater collection system (optional)					
Wastewater collection			Recipient of collected wastewater			
Name of wastewater collection agency	Wastewater volume <i>Metered or estimated?</i>	Volume of wastewater collected in 2015 <sup>(b)</sup>	Name of wastewater treatment agency receiving collected wastewater	Treatment plant name	Is WWTP located within UWMP area? <i>Drop down list</i>	Is WWTP operation contracted to a third party? (optional) <i>Drop down list</i>
City of Grass Valley	Estimated	2,230	City of Grass Valley	Grass Valley Wastewater Plant	Yes	Yes
Nevada City	Estimated	700	Nevada City	Nevada City Wastewater Treatment Facility	Yes	Yes
Placer County	Estimated	2,240	Placer County	Placer County SMD1 Wastewater Treatment Plant <sup>(c)</sup>	Yes	Yes
City of Auburn	Estimated	1,850	City of Auburn	Auburn Wastewater Treatment Plant	Yes	Yes
Total Wastewater Collected from Service Area:		7,020				

#### Notes

<sup>(a)</sup> It is estimated that the 2015 service area covered by the collection system is 90 percent. It is estimated that 90 percent of the service area population is covered by the collection system.

<sup>(b)</sup> Volume of wastewater collected in 2015 is estimated based on a per capita wastewater production of 125 gpd proportioned by wastewater collection agency based on the quantity of recycled water from each agency.

<sup>(c)</sup> Placer County SMD1 Wastewater Treatment Plant is scheduled to go offline in 2016. All wastewater from this facility will be treated in the City of Lincoln in the future.

### 5.5.2.2 Wastewater Treatment and Discharge within Service Area

The wastewater is collected by gravity and force mains in a series of main, trunk, and interceptor sewers owned and operated by the four municipalities within the District service area: the City of Grass Valley, Nevada City, Placer County, and the City of Auburn. The wastewater treatment and discharge within the service area in 2015 is shown in Table 5-3.

- **City of Grass Valley:** The City of Grass Valley operates a tertiary wastewater treatment plant, treating 2.8 mgd. Grass Valley maintains 55 miles of pipeline within the collection system and six wastewater lift stations. Treated wastewater is discharged to Wolf Creek.
- **Nevada City:** Nevada City collects and treats an average dry weather flow of 0.4 mgd. The plant went through a multi-million dollar upgrade which was completed in 2007. It is a tertiary treated activated sludge plant. The Nevada City Wastewater Treatment Plant's treated wastewater is discharged to Deer Creek.
- **Placer County:** Placer County collects and treats an average dry weather wastewater flow of 1.7 mgd for discharge to Rock Creek, just above its confluence with Dry Creek. The waste water treatment plant (WWTP) currently provides tertiary treatment when influent flows are 3.5 mgd or less and a mixture of secondary and tertiary treatment when flows are greater than 3.5 mgd.
- **City of Auburn:** The City of Auburn's treatment plant is located west of Auburn in the Ophir area. The plant is permitted to discharge its treated effluent into Auburn Ravine to a maximum flow of 1.65 mgd. The effluent is treated to what is commonly referred to as tertiary treatment. The City of Auburn also maintains over 65 miles of wastewater collection lines throughout Auburn. This network of pipes collects sewage from residences and businesses within the City of Auburn and transports it to the treatment plant.

**Table 5-3. (DWR Table 6-3) Retail: Wastewater Treatment and Discharge Within Service Area in 2015**

No wastewater is treated or disposed of within the UWMP service area. The Supplier will not complete the table below.										
Wastewater treatment plant name	Discharge location name or identifier	Discharge location description	Wastewater discharge ID number (optional)	Method of disposal	Does this plant treat wastewater generated outside the service area?	Treatment level	2015 volumes (ac-ft)			
							Wastewater treated	Discharged treated wastewater	Recycled within service area	Recycled outside of service area
City of Grass Valley	Wolf Creek	Wolf Creek		River or creek outfall	Yes	Tertiary	2,230	2,230	621	-- (a)
Nevada City	Deer Creek	Deer Creek		River or creek outfall	Yes	Tertiary	700	700	196	-- (a)
Placer County	Rock Creek	Rock Creek, just above its confluence with Dry Creek.		River or creek outfall	Yes	Tertiary	2,240	2,240	623	-- (a)
City of Auburn	Auburn Ravine	Auburn Ravine		River or creek outfall	Yes	Tertiary	1,850	1,850	516	-- (a)
						Total	7,020	7,020	1,956	--

(a) Unknown

### 5.5.3 Recycled Water System

*10633(c) (Describe) the recycled water currently being used in the supplier's service area, including, but not limited to, the type, place, and quantity of use.*

All wastewater treated within the District service area is discharged to local natural watercourses. Recycled water discharge mixes with the District water being transported in those watercourses. The combined waters are then diverted from the creeks into canals. This supply of water augments the District's overall water supply. The District uses recycled water exclusively for agricultural uses. Below is a description of the use of recycled water from each of the four wastewater treatment municipalities within the District service area.

**Nevada City:** The District utilizes recycled wastewater effluent from the Nevada City sewage treatment plant for agricultural uses. The sewage effluent is diverted from Deer Creek.

**Grass Valley:** The District utilizes recycled sewage effluent from the Grass Valley sewage treatment plant for agricultural uses. The sewage effluent is diverted from Wolf Creek and gets re-used as agricultural irrigation water.

**City of Auburn:** The District utilizes recycled sewage effluent from the Auburn sewage treatment plant for agricultural uses. The sewage effluent is diverted from local drainage and gets re-used as agricultural irrigation water.

**Placer County:** The District utilizes recycled sewage effluent from the Placer County sewage treatment plant that discharges into Rock Creek, just above its confluence with Dry Creek for agricultural uses. This sewage treatment plant is scheduled to be taken offline in 2016, and supply to the District will be reduced.

### 5.5.4 Recycled Water Beneficial Uses

*10633(d) (Describe and quantify) the potential uses of recycled water, including, but not limited to, agricultural irrigation, landscape irrigation, wildlife habitat enhancement, wetlands, industrial reuse, groundwater recharge, indirect potable reuse, and other appropriate uses, and a determination with regard to the technical and economic feasibility of serving those uses.*

*10633(e) (Describe) the projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years ...*

This section presents the projected potential use and planned versus actual use of recycled water in 2015.

#### 5.5.4.1 Current and Planned Uses of Recycled Water

Table 5-4 presents the projected future reuse water demands in the District's service area. The extent to which recycled water is available in the future is dependent upon the capacity of the four WWTPs. Recycled water supplies could potentially be reduced based on the assumption that discharges from natural waterway from the waste water treatment facilities would be reduced as well as from the loss of recycled water from the Placer County SMD1 that is scheduled to be taken offline in 2016.

**Table 5-4. (DWR Table 6-4)  
Projected Future Use of Recycled Water, ac-ft/yr**

<input type="checkbox"/>		Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table below.						
Name of Agency producing (treating) the recycled water:				Grass Valley, Nevada City, Placer County, City of Auburn				
Name of Agency operating the recycled water distribution system:				N/A				
Supplemental water added in 2015				N/A				
Source of 2015 supplemental water				N/A				
Type of use	General description	Level of treatment	2015	2020	2025	2030	2035	2040
Agriculture irrigation		Tertiary	1,956	2,321	2,574	2,852	3,157	3,498
Landscape irrigation (exc golf course)			0	0	0	0	0	0
Golf course irrigation			0	0	0	0	0	0
Commercial use			0	0	0	0	0	0
Industrial reuse			0	0	0	0	0	0
Geothermal and other energy projection			0	0	0	0	0	0
Seawater intrusion barrier			0	0	0	0	0	0
Recreational impoundment			0	0	0	0	0	0
Wetlands or wildlife habitat			0	0	0	0	0	0
Groundwater recharge (IPR)			0	0	0	0	0	0
Surface water augmentation (IPR)			0	0	0	0	0	0
Direct potable reuse			0	0	0	0	0	0
<b>TOTAL</b>			<b>1,956</b>	<b>2,321</b>	<b>2,574</b>	<b>2,852</b>	<b>3,157</b>	<b>3,498</b>

Note: Per Appendix M of the 2015 Urban Water Management Plans Guidebook for Urban Water Suppliers (DWR, 2016), if recycled water is obtained from multiple suppliers but operated within a single system, the total amount of recycled water obtained is reported in a single table.

#### 5.5.4.2 Planned Versus Actual use of Recycled Water

10633(e) (Provide) a description of the actual use of recycled water in comparison to uses previously projected pursuant to this subdivision.

Table 5-5 provides a comparison of the recycled water use projected to occur in 2015 in the 2010 UWMP with the actual 2015 recycled water use.

**Table 5-5. (DWR Table 6-5) Retail: 2010 UWMP Use Projection Compared to 2015 Actual, ac-ft/yr**

<input type="checkbox"/>	Recycled water was not used in 2010 nor projected for use in 2015. The supplier will not complete the table below.	
Use type	2010 projection for 2015	2015 actual use
Agriculture irrigation	2,712	1,956
Landscape irrigation (exc golf course)	0	0
Golf course irrigation	0	0
Commercial use	0	0
Industrial reuse	0	0
Geothermal and other energy projection	0	0
Seawater intrusion barrier	0	0
Recreational impoundment	0	0
Wetlands or wildlife habitat	0	0
Groundwater recharge (IPR)	0	0
Surface water augmentation (IPR)	0	0
Direct potable reuse	0	0
<b>TOTAL</b>	<b>2,712</b>	<b>1,956</b>

Note: 2015 actual use is lower than what was projected to occur in 2015 due to reduced water use in 2015.

### 5.5.5 Actions to Encourage and Optimize Future Recycled Water Use

10633(f) (Describe the) actions, including financial incentives, which may be taken to encourage the use of recycled water, and the projected results of these actions in terms of acre-feet of recycled water use per year.

10633(g) (Provide a) plan for optimizing the use of recycled water in the supplier's service area, including actions to facilitate the installation of dual distribution systems to promote recirculating uses, to facilitate the increased use of treated wastewater that meets recycled water standards, and to overcome any obstacles to achieving that increased use.

The District does not have the authority or control to optimize the use of reclaimed water. Therefore, the District does not have an optimization reuse plan. The District utilizes recycled water to meet agricultural water demands outside of the potable distribution service area. This is more cost effective than the installation of a dual distribution system within its retail potable water system. Recirculating uses of water will continue to occur within the District service area. The District does not maintain incentives to use reclaimed water as shown in Table 5-6.



**Table 5-6. (DWR Table 6-6)  
Methods to Expand Future Recycled Water Use**

✓	Supplier does not plan to expand recycled water use in the future. Supplier will not complete the table below but will provide narrative explanation		
Name of action	Description	Planned implementation year	Expected increase in recycled water use
Total			0

## 5.6 Desalinated Water Opportunities

*10631(h) Describe the opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groundwater, as a long-term supply.*

The District has no sources of ocean water, brackish water, or groundwater that provide viable opportunities for development of desalinated water as a long term supply.

## 5.7 Exchanges or Transfers

*10631(d) Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.*

The District is currently exploring the feasibility of water transfers on a short-term basis. The analysis is ongoing and the results of the findings will be included in future UWMP updates.

## 5.8 Future Water Projects

*10631(g) ...The urban water supplier shall include a detailed description of expected future projects and programs... that the urban water supplier may implement to increase the amount of the water supply available to the urban water supplier in average, single-dry, and multiple-dry water years. The description shall identify specific projects and include a description of the increase in water supply that is expected to be available from each project. The description shall include an estimate with regard to the implementation timeline for each project or program.*

The District is planning to build a new 110,000 acre-foot reservoir named Centennial on the Bear River in Nevada and Placer counties between Combie and Rollins Reservoirs. The reservoir is planned for construction in 2021 and for operation in 2023. The reservoir will help combat the effects of climate change on the District's snowpack and provide additional supplies during multiple dry water years.

Another future water project is the construction of a water treatment plant, raw water pipeline, and treated water distribution pipelines for District customers within the City of Lincoln. Instead of the District providing raw water for PCWA to treat and convey to the City of Lincoln, the District will construct a water treatment plant in Placer County to provide treated water directly to the City and soft service areas within the District boundary.

There are water treatment plant expansion projects currently in progress or planned for the near future, as shown in Table 5-7. This table also provides a schedule of the future water supply projects and a quantification of each project's normal-year yield, single dry-year yield, and multiple dry-year yields. The WTP expansion or construction projects do not increase the District's raw water supply;



however, they do increase the amount of treated water available for the District's treated water customers. The annual increase in treated water available as a result of the water treatment plant capacity expansions is assumed to be equal to the expansion capacity divided by 2.

Table 5-7. (DWR Table 6-7) Retail: Expected Future Water Supply Projects or Programs, ac-ft/yr						
<input type="checkbox"/>	No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below.					
<input type="checkbox"/>	Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in narrative format. LOCATION OF THE NARRATIVE _____					
Name of future projects or programs	Joint project with other agencies?		Description (if needed)	Planned implementation year	Planned for use in a year type (drop down menu)	Expected increase in water supply to agency
Centennial Reservoir	No			2023	Average year/single-dry year/multiple-dry year	110,000
Loma Rica WTP 4 mgd expansion	No		--	2028	Average year/single-dry year/multiple-dry year	1,792
E. George WTP 6 mgd expansion	No		--	2025	Average year/single-dry year/multiple-dry year	2,688
Lake Wildwood WTP 4 mgd expansion	No			2019	Average year/single-dry year/multiple-dry year	1,792
North Auburn WTP 4 mgd expansion	No			2020	Average year/single-dry year/multiple-dry year	1,792
Valley View WTP 10 mgd new WTP <sup>(a)</sup>	No			2018	Average year/single-dry year/multiple-dry year	4,480

<sup>(a)</sup> NID raw water is currently treated in Placer County Water Agency's treatment plant to serve the District customers in Lincoln. A District treatment plant (Valley View WTP) is proposed in approximately 2018.

<sup>(b)</sup> The expected increase in water supply available as a result of the water treatment plant capacity expansions is assumed to equal to the expansion capacity divided by 2.

## 5.9 Summary of Existing and Planned Sources of Water

10631 (b) Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision 10631(a).

10630 (b)(4) (Provide a) detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

A summary of actual supply sources and quantities in 2015 are provided in Table 5-8. The water supplies projected from 2020 through 2040 are provided in Table 5-9.

Table 5-8. (DWR Table 6-8) Water Supplies – Actual, ac-ft/yr				
Water supply	Additional detail on water supply	2015		
		Actual volume	Water quality	Total right or safe yield
Purchased water	PG&E	16,003	Raw water	54,361
Supply from storage				
Groundwater				
Surface water	Watershed runoff	77,378	Raw water	221,500
Surface water	Carryover storage <sup>(a)</sup>	107,330	Raw water	201,985
Recycled water		1,956	Recycled water	2,500
Desalinated water				
Stormwater use				
Transfers				
Exchanges				
<b>Total</b>		<b>202,667</b>		<b>480,346</b>

Note: A normal year is assumed.

<sup>(a)</sup> 2015 supply from carryover storage is calculated based on 2014 end of month September storage minus 30,900 ac-ft unusable minimum pool requirements and dead storage.

**Table 5-9. (DWR Table 6-9)  
Water Supplies – Projected, ac-ft/yr**

Water supply	Additional detail on water supply	2020		2025		2030		2035		2040	
		Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield	Reasonably available volume	Total right or safe yield
Purchased water	PG&E <sup>(a)</sup>	8,000	54,361	8,000	54,361	8,000	54,361	8,000	54,361	8,000	54,361
Supply from storage											
Groundwater											
Surface water <sup>(d)</sup>	Watershed runoff <sup>(b)</sup>	221,500	221,500	221,500	221,500	221,500	221,500	221,500	221,500	221,500	221,500
Surface water	Carryover storage <sup>(c)</sup>	129,400	201,985	129,400	201,985	129,400	201,985	129,400	201,985	129,400	201,985
Recycled water		1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900
Desalinated water											
Stormwater use											
Transfers											
Exchanges											
<b>Total</b>		<b>360,800</b>	<b>479,746</b>	<b>360,800</b>	<b>479,746</b>	<b>360,800</b>	<b>479,746</b>	<b>360,800</b>	<b>479,746</b>	<b>360,800</b>	<b>479,746</b>

Note: A normal year is assumed.

- <sup>(a)</sup> Full entitlement of PG&E contract is 54,361 ac-ft that is usually not purchased during normal and above normal runoff years due to conduit conveyance restrictions. Normally 7,500 to 8,000 ac-ft/yr is purchased from PG&E.
- <sup>(b)</sup> Includes Middle Yuba River above Milton Diversion, Canyon Creek above Bowman Reservoir, Texas Creek, Fall Creek and Deer Creek. Does not include Bear River, or South Yuba due to PG&E contract provisions, and hydrological and water rights considerations. Projected normal year supply is assumed to equal the 31-year average runoff.
- <sup>(c)</sup> Storage recorded at end of September of previous year and reduced by 30,900 ac-ft unusable minimum pool requirements and dead storage. Projected normal year supply is assumed to equal the 47-year average carryover storage.
- <sup>(d)</sup> With the completion of Centennial Reservoir in the future surface water supply in both the watershed runoff and carryover storage will be increased. The District is in the early stage of evaluating the Centennial water supply and the quantified available capacity will be included in a future update of the UWMP.

## 5.10 Climate Change Impacts to Supply

The District was a key participant in the Cosumnes American Bear Yuba (CABY) 2013 Integrated Regional Water Management Plan (IRWMP) Update (CABY, 2014) which discusses the influence of a changing climate on the CABY region, and specifically on the quantity, quality, and timing of water resources available to support the needs of humans and natural systems. Climate change and related drought conditions are increasingly at the forefront of water resource management decisions around the state and throughout the CABY region. Water supply and demand, ecological processes, and fire are CABY's core issues, and it is likely that management of these issues under the projected impacts of climate change will intensify. The information presented in this section is based on the CABY 2013 IRWMP Update. The District is in the process of evaluating climate change impacts to the water supply and will update this Section when additional information is available.

### 5.10.1 Regional Climatic Projections

Spring thaw in the central Sierra is occurring earlier in recent years than it did 60 years ago. Along with rising temperatures, more precipitation now falls as rain than snow. This has serious implications for a region whose snowpack has historically served as a 'reservoir,' a reliable slow-melting source of water for the District. As snow melts sooner and faster due to warming temperatures and combines with precipitation increasingly falling as rain rather than snow, uncertainty in water storage and release operations will confront water managers and hydropower producers. Flooding impacts are expected to increase with storm intensity and higher winter rain precipitation events while summer stream flows are expected to diminish over the season, potentially affecting domestic and environmental water supply and quality and engendering tough choices for water managers and policy makers. Regional climatic projections as presented in the IRWMP (CABY, 2014) are summarized below.

**Increased Air Temperature** - Higher air temperatures are predicted for warmer seasons, generally resulting in less available water overall. In the Sierra, the average temperature is predicted to increase by 2° to 4°F in the winter and 4° to 8°F in the summer by the end of the century.

**Runoff** - Along with the early melt, the increased rainfall produces runoff at an accelerated rate compared to snowmelt and has increased the frequency and amount of winter (as opposed to spring) runoff periods. The shift from spring to winter (November through February) runoff periods has implications for water use and management, both within the watershed and for those downstream.

**Flooding** - Increased flood potential is projected under many climate scenarios because higher temperatures cause earlier snowmelt and an increase in the ratio of precipitation arriving in the form of rainfall versus snow. Peak daily flows in winter are expected to increase even under scenarios with reduced precipitation overall due to expected higher intensity winter rain storm events.

**Streamflow** - PG&E examined possible side effects of climate change on runoff by comparing two consecutive 35-year periods (1942-1976 and 1977-2011). The company maintains daily runoff records for 100+ locations in the Sierra, southern Cascade, and Coastal Ranges of California. PG&E's data showed that out of the 13 rivers studied, the Yuba River at Smartsville has experienced the third highest reduction in unimpaired runoff between these two periods.

**Water Quality** - Earlier snowmelt coupled with rain-on-snow events that accelerate runoff may increase erosion and raise turbidity (and resulting sedimentation). Higher water temperatures also have accelerated some biological and chemical processes, increasing the growth of algae and microorganisms, the depletion of dissolved oxygen, and impacts to water treatment processes.

### 5.10.2 Long Term Program to Respond to Climate Change

The CABY IRWMP presents recommendations for a long-term climate program to help assure climate resiliency for the region. The program consists of eight components that focus on ways to mitigate climate change effects on the region, as well as identifying the contributing factors of the region (including potential State policy and regulation) that can exacerbate the impacts of climate change. The program seeks to provide the means, under an uncertain climate future, for the region to continue to produce high-quality water, provide reliable water supply and carbon-free hydroelectric generation, support sustained healthy and diverse ecosystems, and reduce socioeconomic impacts under an altered climate future.

These eight program components are: involvement in developing State policies and programs, increased knowledge sharing, increased coordination and collaboration, securing funding, monitoring the implementation of adaptive management strategies, reducing greenhouse gasses,

data gathering, and investment in infrastructure and monitoring.. The plan summarizes the region's climate vulnerabilities and the suggested adaptive management strategies to increase operational resource resiliency. These strategies are continually reviewed and adapted as climate change modeling and theory are updated.

In addition to participation in the CABY climate change efforts, the District continues to work together with multiple regional water supply partners, academic institutes and regulatory agencies. Below is a list of some of the projects the District is performing in an effort to become more climate adaptable:

**Water Efficiency/Conservation** - The District continues to expand its conservations efforts. In recent years the District has expended more than a million dollars in grant funding to improve its water conveyance facilities through canal lining, measuring stations, and public outreach. The District will continue to fund, pursue grants, and explore incentive programs in the future.

**Regional Water Storage** - The District is exploring ways to expand surface water storage. Most climate change models include changes in the timing and durations of precipitation. Warming temperatures are expected to reduce snow pack and increase instantaneous runoff Surface water storage will be needed to capture these early runoff events and backstop the storage that the snow pack previously provided.

**Meadow Restoration** - In collaboration with local Academic Institutes and stakeholders, the District is exploring ways to increase water permeability within the Districts watershed. These projects range from high alpine meadow restoration to biomass placement on the forest floor to retain moisture.

**Land Management** - The District is proactively managing the lands within its watershed in an effort to reduce underbrush and canopy coverage. The proactive resource management will continue to increase the potential for snow fall to reach the forest floor and conglomerate on the soil surface. This promotes an increase in infiltration as opposed to snow trapped within the canopy that melts and evaporates at a high rate.

The District will continue exploring the most advantageous ways to address climate variability to combat climate change in the coming years.



## Section 6

# Water Supply Reliability Assessment

This section describes factors impacting long-term reliability of water supplies and provides a comparison of projected water supplies and demand projections.

## 6.1 Constraints on Water Sources

*10631(c)(2) For any water source that may not be available at a consistent level of use, given specific legal, environmental, water quality or climatic factors, describe plans to supplement or replace that source with alternative sources or water demand management measures, to the extent practicable.*

*10634 The plan shall include information, to the extent practicable, relating to the quality of existing sources of water available to the supplier over the same five-year increments as described in subdivision (a) of Section 10631, and the manner in which water quality affects water management strategies and supply reliability.*

Water supply reliability is an important component of the water management planning process. Factors contributing to inconsistency in the District's water supplies include legal limitations due to water rights and contracts limiting the quantity of water available to the District, environmental constraints, and reductions in availability due to climatic factors. The surface water supply to the District is subject to reductions during single and multiple dry years (seasonal and climatic shortages). The District holds senior water rights to the majority of its supply and has the ability to manage carry over storage quantities based on domestic, municipal and irrigation needs.

The District's contracted water supply from PG&E will be reduced in dry, critically dry, or extreme critically dry water year types. The July-December quantities are reduced by the ratio of the May 1 value of the SVI 50 percent probability of exceeding the then-current 50 year SVI average.

Constraints on the District's water supply sources due to climate change is described in Section 5.10.

The only other source of water for the District is recycled water, which will be reduced with the elimination of the SMD1 wastewater treatment plan, but otherwise is assumed to remain constant in all year types. Recycled water supplies could potentially be reduced based on the assumption that river discharges from the waste water treatment facilities would be reduced.

Regulations governing drinking water quality with which the District must comply for its treated water supply are established at the Federal and State levels. One of those requirements is to prepare a Watershed Sanitary Survey every five years. As summarized in the District's 2011 Watershed Sanitary Survey Update (Starr, 2011) the District expects no loss of water used for urban purposes due to water quality impacts. The PG&E purchased water is similar in quality as the District's supply since it originates from the same sources and is co-mingled with the District supply.

The following primary observations were in the 2011 Watershed Sanitary Survey Update field assessment of the watershed. The District is able to address these potential raw water quality

issues through the treatment process at the water treatment plants. The District is placing a priority on converting open canals that convey water to a WTP to closed pipeline conveyances.

- Areas in the upper watersheds are, in general, minimally impacted by current human activities. However, previous mining era activities have had an impact.
- Current and historic mining operations distributed over large areas in the watersheds have a combined high potential to impact raw water quality.
- Industrial marijuana cultivation chemicals and trash can impact raw water quality.
- During summer months, recreation in the upper watersheds, including body contact recreation, motorized recreation, camping, and hiking, bring large numbers of visitors into the area. This increases the potential for source water contamination.
- Major highways, local access roads, and railroads are located throughout the watersheds increasing the risks to source water quality.
- Various licensed pesticides and herbicides are used for weed control in and around the District's canals, however, during the application period, the treatment plants are bypassed.
- Most canals are open; they receive untreated drainage including influence from animals from the uphill slopes and are not protected from vandalism or other sources of contamination.

Natural disasters can also impact water quality. The quality of water supplies can be dramatically affected by fire. Storm damage to the District conveyance facilities may consist of the following elements:

- Damage to parts of canal intakes,
- Collapse or weakening of some sections of canal flumes,
- Erosion and sedimentation of, and landslides into, sections of the canals.
- Damage by falling trees
- Flying debris into the canals
- Filling of reservoirs by sediments through runoff

The above-listed damages can cause some temporary adverse water quality effects, and some short-term losses of the District's water supplies in extreme cases and private property damage. Of greater concern to overall water quality are flood and precipitation related damage occurrences that could cause longer term adverse water quality impacts such as excessive runoff and loading of surface contaminants (such as livestock manure, petroleum products, pesticides, and mineral wastes).

The District's watershed runoff water supply sources are covered by a combination of pre-1914 water rights, post 1914- water rights, and riparian water rights. In some California watersheds including the Sacramento River watershed, the recent drought has resulted in diversion curtailment orders being issued in 2014 and 2015 on water rights going back to a 1903 priority date. These restrictions may continue to be placed on the District regardless of the priority of the water rights if the drought continues to be an even longer multi-year drought.

## 6.2 Reliability by Type of Year

*10631(c)(1) Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage, to the extent practicable, and provide data for each of the following: (A) an average water year, (B) a single dry water year, (C) multiple dry water years.*

The basis of the water year data is provided in Table 6-1 for PG&E supply, Table 6-2 for watershed runoff, and Table 6-3 for carryover storage. The definitions of the three water year types as described by DWR (DWR, 2015) are provided below.



1. Average year is a year, or an averaged range of years in the historical sequence that most closely represents median water supply availability to the agency. Normal and average are used interchangeably within the DWR guidebook.
2. Single dry year is the year with the lowest water supply availability to the agency.
3. Multiple-dry year period is the lowest average water supply availability to the agency for a consecutive multiple year periods (three years or more) for a watershed since 1903.

**Table 6-1. (DWR Table 7-1)  
Retail Basis of Water Year Data – PG&E**

Year type	Base year	Volume available, ac-ft/yr	Percentage of average supply
Average year	2000	8,936	112%
Single dry year	2015	16,003	200%
Multiple-dry years 1st year	2012	2,882	36%
Multiple-dry years 2nd year	2013	4,367	55%
Multiple-dry years 3rd year	2014	13,774	172%
Multiple-dry years 4th year	2015	16,003	200%

**Table 6-2. (DWR Table 7-1)  
Retail Basis of Water Year Data – Watershed Runoff**

Year type	Base year	Volume available, ac-ft/yr	Percentage of average supply
Average year	2000	214,096	97%
Single dry year	2015	77,378	35%
Multiple-dry years 1st year	2012	223,069	101%
Multiple-dry years 2nd year	2013	89,763	41%
Multiple-dry years 3rd year	2014	120,041	54%
Multiple-dry years 4th year	2015	77,378	35%

**Table 6-3. (DWR Table 7-1)  
Retail Basis of Water Year Data – Carryover Storage**

Year type	Base year	Volume available, ac-ft/yr	Percentage of average supply
Average year	2000	149,248	115%
Single dry year	2015	107,330	83%
Multiple-dry years 1st year	2012	140,310	108%
Multiple-dry years 2nd year	2013	137,195	106%
Multiple-dry years 3rd year	2014	117,500	91%
Multiple-dry years 4th year	2015	107,330	83%

## 6.3 Supply and Demand Assessment

10635(a) Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and multiple dry water years. The water service reliability assessment shall be based upon the information compiled pursuant to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.

This section provides a comparison of normal, single dry, and multiple dry water year supply and demand for the District. Water demands are addressed in Section 3 and water supplies are addressed in Section 5.

### 6.3.1 Current and Projected Normal Year Water Supplies vs. Demand

The normal water year current and projected water supplies are compared to the current and projected demand for the District in Table 6-4.

Table 6-4. (DWR Table 7-2) Retail: Normal Year Supply and Demand Comparison, ac-ft/yr					
	2020	2025	2030	2035	2040
Supply <sup>(a)</sup>					
PG&E <sup>(b)</sup>	8,000	8,000	8,000	8,000	8,000
Watershed runoff	221,500	221,500	221,500	221,500	221,500
Carryover storage	129,400	129,400	129,400	129,400	129,400
Recycled water	1,900	1,900	1,900	1,900	1,900
Supply total	360,800	360,800	360,800	360,800	360,800
Demand total <sup>(c)</sup>	178,919	187,960	196,076	203,080	209,521
Difference (supply minus demand)	181,881	172,840	164,724	157,720	151,279

<sup>(a)</sup> Supply from Table 5-10.

<sup>(b)</sup> Full entitlement of PG&E contract is 54,361 ac-ft that is usually not purchased during normal and above normal runoff years due to conduit conveyance restrictions. Normally 7,500 to 8,000 ac-ft/yr is purchased from PG&E.

<sup>(c)</sup> Demand from Table 3-2.

The current and projected water supplies are compared to the demands for a single dry year for the District in Table 6-5.

<b>Table 6-5. (DWR Table 7-3)</b> <b>Single Dry Year Water Supply and Demand Comparison, ac-ft/yr</b>					
	2020	2025	2030	2035	2040
Supply					
PG&E	16,003	16,003	16,003	16,003	16,003
Watershed runoff	77,378	77,378	77,378	77,378	77,378
Carryover storage	107,330	107,330	107,330	107,330	107,330
Recycled water	1,900	1,900	1,900	1,900	1,900
Supply total	202,611	202,611	202,611	202,611	202,611
Demand total	178,919	187,960	196,076	203,080	209,521
Difference (supply minus demand)	23,692	14,651	6,535	-469 <sup>(a)</sup>	-6,910 <sup>(a)</sup>

<sup>(a)</sup> With the completion of Centennial Reservoir in the future surface water supply in both the watershed runoff and carryover storage will be increased to eliminate this projected deficit. The District is in the early stage of evaluating the Centennial water supply and the quantified capacity will be included in a future update of the UWMP.

The projected water supplies are compared to the demands for multiple dry years for the District in Table 6-6.

Table 6-6. (DWR Table 7-4) Wholesale: Multiple-Dry Years Supply and Demand Comparison, ac-ft/yr						
		2020	2025	2030	2035	2040
First year	Supply					
	PG&E	2,882	2,882	2,882	2,882	2,882
	Watershed runoff	223,069	223,069	223,069	223,069	223,069
	Carryover storage	140,310	140,310	140,310	140,310	140,310
	Recycled water	1,900	1,900	1,900	1,900	1,900
	Supply total	368,161	368,161	368,161	368,161	368,161
	Demand total	178,919	187,960	196,076	203,080	209,521
	Difference	189,242	180,201	172,085	165,081	158,640
Second year	Supply					
	PG&E	4,367	4,367	4,367	4,367	4,367
	Watershed runoff	89,763	89,763	89,763	89,763	89,763
	Carryover storage	137,195	137,195	137,195	137,195	137,195
	Recycled water	1,900	1,900	1,900	1,900	1,900
	Supply total	233,225	233,225	233,225	233,225	233,225
	Demand totals	178,919	187,960	196,076	203,080	209,521
	Difference	54,306	45,265	37,149	30,145	23,704
Third year	Supply					
	PG&E	13,744	13,744	13,744	13,744	13,744
	Watershed runoff	120,041	120,041	120,041	120,041	120,041
	Carryover storage	117,500	117,500	117,500	117,500	117,500
	Recycled water	1,900	1,900	1,900	1,900	1,900
	Supply total	253,185	253,185	253,185	253,185	253,185
	Demand total	178,919	187,960	196,076	203,080	209,521
	Difference	74,266	65,225	57,109	50,105	43,664
Fourth year	Supply					
	PG&E	16,003	16,003	16,003	16,003	16,003
	Watershed runoff	77,378	77,378	77,378	77,378	77,378
	Carryover storage	107,330	107,330	107,330	107,330	107,330
	Recycled water	1,900	1,900	1,900	1,900	1,900
	Supply total	202,611	202,611	202,611	202,611	202,611
	Demand total	178,919	187,960	196,076	203,080	209,521
	Difference	23,692	14,651	6,535	-469	-6,910

<sup>(a)</sup> With the completion of Centennial Reservoir in the future surface water supply in both the watershed runoff and carryover storage will be increased to eliminate this projected deficit. The District is in the early stage of evaluating the Centennial water supply and the quantified capacity will be included in a future update of the UWMP.

## 6.4 Regional Supply Reliability

*10620 (f) An urban water supplier shall describe in the plan water management tools and options used by that entity that will maximize resources and minimize the need to import water from other regions.*

As described in Section 5.10, the District is a member of CABY and was a key participant in the CABY 2013 IRWMP Update (CABY, 2014). The purpose of the 2013 IRWMP Update is to identify management goals and objectives, including those for water supply, water quality, environment and habitat, land use, and recreation; evaluate alternative water management strategies and identifying opportunities for cooperative actions among water resource management entities and key stakeholders; provide an implementation plan for priority projects; establish an ongoing planning framework and management structure from which local water management policies, projects, and programs can be formulated, evaluated, and implemented.

In addition, The District's water conservation efforts to promote conservation of water supplies through efficient conveyance practices as well as demand side conservation programs also help to maximize resources and minimize the need to import water from other regions.



## Section 7

# Water Shortage Contingency Planning

*10632 (a) The plan shall provide an urban water shortage contingency analysis that includes each of the following elements that are within the authority of the urban water supplier.*

This section describes the District's water shortage contingency planning process and how the District responds to water shortages.

The District recently adopted an updated Drought Contingency Plan on November 18, 2015, provided in Appendix J to guide staff and customers to help minimize drought or water supply storage impacts. The Drought Contingency Plan identifies drought action levels, appropriate agency response, water demand reduction goals, and provides recommended demand management measures to assist customers in water conservation. The Drought Contingency Plan is reviewed every five years and updated if necessary with Board approval.

In 2015 as a response to the Governor's Executive Order, the District also passed a resolution for water conservation to achieve 36 percent water use reduction from 2013 water use between the months of May through September. The District did significant outreach in an attempt to achieve this mark. The Executive Order was recently extended to be in place through October 2016. In 2016 the District is required to achieve a 33 percent water use reduction from 2013 water use. This percent reduction may be reduced in the near future due to improved hydrological conditions.

## 7.1 Stages of Action

*10632(a) Stages of action to be undertaken by the urban water supplier in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage.*

The District water shortage contingency plan is based on five stages as defined in Table 7-1. Prior to the beginning of the irrigation season, but no later than April 1 of each year the District evaluates its current reservoir storage, forecasted runoff, and purchase options from PG&E to determine what water supply stage will apply during the year. The District's minimum carryover amount is evaluated every five years and updated as needed.

Table 7-1. (DWR Table 8-1) Retail: Stages of Drought Contingency Plan		
Stage	Percent supply reduction (numerical value as a percentage)	Water supply condition (narrative description)
Normal operations	0	>235,700 ac-ft available supply, normal operation
Stage 1 Voluntary Usage Reduction	10 - 20%	235,700 - 205,700 ac-ft available supply
Stage 2 Mandatory Usage Reduction	10 - 25%	205,700 - 198,200 ac-ft available supply
Stage 3 Mandatory Usage Reduction	25 - 40%	198,200 - 175,700 ac-ft available supply
Stage 4 Mandatory Usage Reduction	>40%	<175,700 ac-ft available supply

## 7.2 Prohibitions on End Uses

10632 (a) (4) Additional, mandatory prohibitions against specific water use practices during water shortages, including, but not limited to, prohibiting the use of potable water for street cleaning.

10632 (a) (5) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.

The Drought Contingency Plan includes mandatory prohibitions. Types of restrictions and prohibitions can be categorized as landscape irrigation, commercial/ institutional/ industrial (CII), water features and swimming pools, and other. A summary of restrictions and prohibitions are provided in Table 7-2.

Table 7-2. (DWR Table 8-2) Restrictions and Prohibitions on End Uses			
Stage	Restrictions and Prohibitions on End Users (from drop down list)	Additional Explanation	Penalty, Charge, or Other Enforcement?
Landscape irrigation			
2,3,4	Landscape - Limit landscape irrigation to specific times	Adjust timers to meet target reduction percentage	Fines, reduction of service, termination of service <sup>(a)</sup>
2,3,4	Landscape - Limit landscape irrigation to specific days		Fines, reduction of service, termination of service <sup>(a)</sup>
3	Landscape – Prohibit certain types of landscape irrigation	Irrigation of ornamental turf on public street medians with potable water shall be prohibited	Fines, reduction of service, termination of service <sup>(a)</sup>
4	Landscape – Prohibit certain types of landscape irrigation	Large landscapes with treated water accounts shall reduce their water usage by the target reduction percentage	Fines, reduction of service, termination of service <sup>(a)</sup>
1	CII - Restaurants may only serve water upon request		Fines, reduction of service, termination of service <sup>(a)</sup>
1	Water features – restrict water use for decorative water features such as fountains	Fountains and water features must recirculate water	Fines, reduction of service, termination of service <sup>(a)</sup>
1	Other	Limit fire department practice drills and flow testing on hydrants	Fines, reduction of service, termination of service <sup>(a)</sup>
1	Other	Customers shall comply with Conservation Regulations as spelled out in section 3.05 of the District's Rules and Regulations	Fines, reduction of service, termination of service <sup>(a)</sup>

<sup>(a)</sup> Any violation of a mandatory restriction can be subject to fines, reduction in service or termination of service per Section 3.05 of the District regulations.



### 7.2.1 Landscape Irrigation

Landscape irrigation prohibitions are enforced at Stage 2 and later. In Stage 2 customers shall limit outdoor water use to every other day and to one day a week with the fall daylight savings time change. In Stage 3 outdoor water use is limited to three days per week and limited to 2 days per week in Stage 4. In Stages 2, 3, and 4 customers shall adjust their outdoor watering times to reduce each water zone by the target reduction percentage for each stage. Large landscapes with treated water accounts shall reduce their usage by the target percentage in Stages 3 and 4. Irrigation of ornamental turf on public street medians with potable water is prohibited in Stages 3 and 4.

### 7.2.2 Commercial, Industrial, Institutional (CII)

CII water use prohibitions are requested in Stage 1 and enforced in Stage 2 and later. In addition to the other CII water use prohibitions, in Stage 1 restaurant owners are not to serve water unless requested by the customer.

### 7.2.3 Water Features and Swimming Pools

The District considers the use of fountains or water features that do not re-circulate water as waste and unreasonable use in all stages.

### 7.2.4 Other

In Stage 1 a limit is placed on fire department drills and flow testing of fire hydrants. Also, in Stage 1 customers shall comply with Conservation Regulations as spelled out in section 3.05 of the District's Rules and Regulations, provided in Appendix K.

## 7.3 Penalties, Charges, Other Enforcement

*10632(a) (6) Penalties or charges for excessive use, where applicable.*

Excessive use offenders are first written a letter calling their attention to the wasteful practice and asking for a schedule of correction. Continued violation is discussed before the Board's Water and Hydro Operations Committee, and a recommendation is made to the full Board. Service may be refused, if necessary. The metered commodity rates provide for higher charges for excessive use and are usually enough incentive for a corrective action by the customer.

In addition to being able to refuse water service, the District also provides the following penalties for unauthorized taking of water:

<u>Offense</u>	<u>Penalty</u>
First	\$ 250
Second	\$ 500

## 7.4 Consumption Reduction Methods

*10632(a)(5) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency plan analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply.*

Consumption reduction methods are actions taken by the District to reduce water demand within the service area, whereas prohibitions, addressed in Section 7.2 limit specific uses of water. All connections in the District service area are metered. Actual reductions in water use can be monitored as necessary to achieve the goals of the demand reduction program implemented during

water shortages. During Stage 1 the District increases its public outreach and drought awareness in order to communicate voluntary (Stage 1) and mandatory (Stages 2, 3, and 4) reduction targets to retail customers.

Table 7-3 summarizes the District's consumption reduction methods to reduced water demand in the service area.

**Table 7-3. (DWR Table 8-3) Retail Only: Stages of Water Shortage Contingency Plan - Consumption Reduction Methods**

Stage	Consumption Reduction Methods by Water Supplier <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	Additional Explanation or Reference <i>(optional)</i>
Add additional rows as needed		
1	Expand public information campaign	Drought Contingency Plan
Ongoing	Improve customer billing	Bills are being updated to include graphical representation of usage with target amount.
2	Decrease line flushing	Drought Contingency Plan
3	Increase water waste patrols	Drought Contingency Plan
3	Implement or modify drought rate structure or surcharge	Is expected this year

## 7.5 Determining Water Shortage Reductions

10632(a) (9) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.

Since the District service area is fully metered, reductions in water use can be quantified and compared with previous years' water use.

## 7.6 Revenue and Expenditure Impacts

10632 (a) (7) An analysis of the impacts of each of the actions and conditions described in paragraphs (1) to (6), inclusive, on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts, such as the development of reserves and rate adjustments.

The District has sufficient revenue reserves, if required, to help stabilize revenues from a reduction in water sales during drought for a short period. During a prolonged drought the District would modify its rate structure to a more fixed cost model. The District's Drought Contingency Plan calls for conservation pricing which would be implemented following Proposition 218 procedures.

## 7.7 Resolution or Ordinance

10632 (a)(8) A draft water shortage contingency resolution or ordinance.

The Board adopted the Drought Contingency Plan and a specific drought resolution in 2015. A copy of the Drought Contingency Plan is included in Appendix J.

## 7.8 Catastrophic Supply Interruption Plan

*10632(a) (3) Actions to be undertaken by the urban water supplier to prepare for, and implement during, a catastrophic interruption of water supplies including, but not limited to, a regional power outage, an earthquake, or other disaster.*

The District maintains an Emergency Response Plan to address responding to catastrophic supply interruptions as well as other emergencies. The system is predominantly gravity fed but in situations where on-side generations are unavailable, the District currently has three portable generators that can be moved between different locations as needed. Nearly all drinking water facilities and critical raw water facilities are equipped with permanently installed backup generators. These backup generators increase the reliability of the District's supply.

The Emergency Response Plan is not included in this document due to security reasons.

The District utilizes an emergency organizational structure and chain of command in response to all emergencies within or affecting its service area. The Emergency Response Plan defines the emergency management positions.

In the event of a supply emergency, which requires the rationing of water for health and safety purposes only, the District is prepared to implement an emergency urban water rationing program until normal supplies are restored. In the event of such a supply shortage, the District will implement the following guidelines to be followed until the supply is restored:

1. Direct all available flows to a water treatment plant.
2. Notify customers on a house-to-house basis of emergency and curtailment of all:
  - a. Outside water use.
  - b. Water for manufacturing processes.
  - c. Watering of recreational play areas.
  - d. Flushing or flow testing of fire hydrants.
3. Intensify system water loss prevention measures.
  - a. Conduct a water leak review to determine the amount of water, if any, leaking in the affected system
  - b. Place District maintenance crews on call for priority water leak repair.
  - c. Schedule District operations crews to patrol for unauthorized water use.
  - d. Notify local news media to provide the most current information to District customers.
4. Mutual aid will be called upon to provide an alternative supply of water to those customers affected by the supply shortage. This may include the following actions:
  - a. Notify Cities/Counties/State.
  - b. Maintain an up-to-date list of contractors with water on tank trucks.
  - c. Notify the Office of Emergency Services that a water supply emergency exists.
5. The District will set up an Incident Command Center (ICC) in order to keep local authorities, radio, newspaper and television up to date on the then current status of the water rationing process that is in place, or if customers need special attention during this shortage of water, they can contact the ICC unit directly.

## 7.9 Three-Year Minimum Water Supply

*10632 (a) (2) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply.*

Minimum water supply for 2016, 2017, and 2018 are estimated based on combined availability of all water sources assuming that the hydrology will be the same as the multiple dry year periods of Section 5.4 (2013, 2014, and 2015).

<b>Table 7-4. (DWR Table 8-4) Retail: Three-Year Minimum Water Supply, ac-ft/yr</b>			
	<b>2016</b>	<b>2017</b>	<b>2018</b>
Available water supply	233,225	253,185	202,611

## Section 8

# Demand Management Measures

10631(f)(1)(B) *The narrative pursuant to this paragraph shall include descriptions of the following water demand management measures:*

- (i) Water waste prevention ordinances.*
- (ii) Metering.*
- (iii) Conservation pricing.*
- (iv) Public education and outreach.*
- (v) Programs to assess and manage distribution system real loss.*
- (vi) Water conservation program coordination and staffing support.*
- (vii) Other demand management measures that have a significant impact on water use as measured in gallons per capita per day including innovative measures, if implemented.*

The District conducts an ongoing water conservation program and is committed to implementing water conservation measures for all customer sectors. Water conservation can be achieved through managing the water supply and water demand. Supply management is used to improve the overall system efficiency and reduce waste within the production and delivery facilities. The District uses demand management to encourage water conservation by the consumer. However, the District generally prefers supply management to demand management because it can reduce water loss and waste without the need to depend on consumers for implementation of water management measures, although demand management measures (DMM) are also implemented.

This section provides narrative descriptions addressing the nature and extent of each DMM implemented over the past five years, from 2010 through 2015.

## 8.1 Water Waste Prohibition

Water waste prohibition is an ongoing component of the District's water conservation program. The District has adopted regulations (Appendix K), which state that "a water user who wastes water, either willfully, carelessly, or due to defective or inadequate private facilities, may be refused further water service until the user takes corrective action (Water Service Regulations, Section 3.05 Water Conservation).

The District has established a water waste reporting program where customers can report water waste via the District's website or by telephone. In 2015 191 water waste reports were submitted by customers. Education is the primary tool used by the District to handle reported waste. Contact is made with the customer as a follow up to the water waste report. They are informed of the report and advised of some ways to correct as necessary. Continued violation may lead to a fine, reduction in service, or termination of service. In addition, a regular computerized check alerts customers to unusual increases in usage patterns. This notification has historically been sufficient to prompt immediate corrective actions for most customers.

**Planned Implementation:** The implementation of this DMM is ongoing. The District will continue to enforce this regulation.

**Method to Estimate Expected Water Savings:** Water savings from this program cannot be directly quantified.

## 8.2 Metering

The District is fully metered and all treated water connections are billed based on the volume of water used. The program began in 1968. The District has an inclining block rate structure. For rate information, see Appendix K.

**Planned Implementation:** This DMM is fully implemented and the District will continue to install and read meters on all new services. This District will begin a pilot cellular read program anticipated to begin in late 2016. In addition, the District has begun the replacement of its meters to cellular read. The District's AMR program allows the District to automatically identify customer with high usage rates for potential leak issues.

**Methods to Estimate Expected Water Savings:** Meters allow the District to track customer water usage and compare current use and historical data. Since the District is fully metered no additional water savings will be realized nor additional expenditures incurred from installing meters due to being fully metered.

## 8.3 Conservation Pricing

The District began implementing an inclining block rate structure for all urban water customer sectors in 1996. All customer sectors and meter sizes receive a base block of 10 HCF. Usage above the base amount is billed at a higher block rate. The District's inclining rate structure has three blocks. The District's 2015 rate schedules are included as Appendix K and summarized in Table 8-3.

Table 8-3. Description of the District Rate Structures, Conservation Pricing	
Account type	Define
Residential	
Water rate structure	Flat base rate with two tier inclining block rate usage structure. Up to 10 HCF included in the first tier.
Year rate effective	January 1, 2015
Commercial, Industrial, Institutional	
Water rate structure	Flat base rate with two tier inclining block rate usage structure. Up to 10 HCF included in the first tier.
Year rate effective	January 1, 2015
Irrigation (dedicated meter)	
Water rate structure	Flat base rate with two tier inclining block rate usage structure. Up to 10 HCF included in the first tier.
Year rate effective	January 1, 2015

**Planned Implementation:** The implementation of this DMM is ongoing. The District plans to continue implementing its inclining block rate.

**Methods to Estimate Expected Water Savings:** Effectiveness of this DMM is evaluated by comparison of the District water use before and following the implementation of conservation pricing. The District can monitor the number of violators who use water more than their established

allotment. The District will be able to review this automatically once the switch to cellular reads is implemented and complete.

## 8.4 Public Education and Outreach

Public information is an ongoing component of the District's water conservation program. The District promotes water conservation and awareness through a variety of methods. The District prepares and distributes public information through bill inserts, newsletters, brochures, community speakers, advertising, web page, library, and many special events throughout the year. The District's booth at the annual Nevada County Fair provides outreach to customers from inside and outside of Nevada County. Appendix L displays samples of public information distributed by the District.

The District publishes a newsletter four times a year and distributes the newsletter to its customers. The periodical often contains articles on water conservation. In 1986, the District published a booklet entitled "Water Conservation Gardening" to assist its customers in conserving water. Another conservation article entitled "Lawn Watering Guide" was published by the District in 1989 and is updated or reprinted, as needed. The District partners with the UC Cooperative Extension Master Gardeners which produce "Water Wise Landscaping" periodicals annually. The District provides this information to customers and makes the information available on the District's water efficiency webpage.

The District has prepared news releases and made public announcements on local radio stations relating to water conservation issues. In addition to hosting workshops at the demonstration garden at the District's Grass Valley location, the District also hosts irrigation efficiency workshops annually. The District participates in Farm Days with the Nevada County Resource Conservation District. The District is active in providing outreach at schools and hosts the Great Water Mystery with the South Yuba River Citizens League. The activities performed in this program from 2010 through 2015 are provided in Table 8-4.

<b>Table 8-4. Actual Conservation Activities, Public Information Programs</b>						
<b>Year</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
Paid advertising	Yes	Yes	Yes	Yes	Yes	Yes
Public service announcement	Yes	Yes	Yes	Yes	Yes	Yes
Bill inserts/newsletters/brochures	Yes	Yes	Yes	Yes	Yes	Yes
Bill showing water usage	Yes	Yes	Yes	Yes	Yes	Yes
Demonstration gardens	Yes <sup>(a)</sup>	Yes <sup>(a)</sup>	Yes <sup>(a)</sup>	Yes <sup>(a)</sup>	Yes <sup>(a)</sup>	Yes <sup>(a)</sup>
Speaker events, media events	Yes	Yes	Yes	Yes	Yes	Yes
Speaker's bureau	Yes	Yes	Yes	Yes	Yes	Yes
Program to coordinate with other government agencies, industry, and public interest groups and media	Yes	Yes	Yes	Yes	Yes	Yes
School education programs	Yes	Yes	Yes	Yes	Yes	Yes

<sup>(a)</sup> NID maintains a Demonstration Garden operated by the Master Gardeners of Nevada County, located at the District main office location at 1036 W Main St, Grass Valley.

**Planned Implementation:** The District's public information program is an ongoing, annual program. The District began providing its customer sectors with information on water conservation in 1985 and will continue to do so. This effort will be at or near existing levels, but will intensify at the onset of a dry-year cycle.

**Methods to Estimate Expected Water Savings:** Savings from this program cannot be directly quantified.

## 8.5 Progress to Assess and Manage District System Real Loss

The District's progress to assess and manage the system's real losses consists of ongoing leak detection and repair within the system, focused on the high probability leak areas. This also includes an ongoing meter calibration and replacement program for all production and distribution meters. The District conducts water audits and leak detection and repair on an ongoing basis. The District conducted a water loss audit for 2015 as described in Section 3.2 provided in Appendix F. The District maintains records on all leaks repaired on its treated water system. The information is reviewed each year to determine which pipelines should be considered for replacement as part of the annual budgeted project list.

In the last three years the District has spent \$250,000 to replace approximately 100 linear feet of high leak pipeline within the distribution system. As part of the drought response, the District has also increased priority on leak repair.

**Planned Implementation:** The program for leak detection and repair began in 1985. The District will continue to audit their water distribution systems by comparing water produced and water delivered. Each system is audited at least annually. The District will continue its leak detection program and will schedule surveys on high water loss systems as determined by the annual water audits and leak history records. The District will continue rehabilitating its water distribution system by replacing water mains with extensive leak histories.

**Methods to Estimate Expected Water Savings:** Effectiveness of this DMM is evaluated by tracking leak detection and leak repair and comparison of prior water use to future water use. The District maintains records of numbers and locations of leaks that are detected and repaired each year. The District is implementing an asset management program beginning in 2015 to be able to better track repairs.

The number of miles of distribution lines surveyed and the miles of distribution lines repaired including expenditures and estimated water savings for 2010 through 2015 are provided in Table 8-5.

<b>Year</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
Miles of distribution lines surveyed	8	8	8	10	12	14
Miles of distribution lines repaired	1.5	1.8	1.8	2.0	2.0	2.0
Number of leaks repaired	144	121	109	102	112	175
Water savings <sup>(a)</sup> , ac-ft/yr	534	983	1,387	1,766	2,181	2,296

<sup>(a)</sup> Water savings shown are cumulative savings assuming the life span of water savings from leak repair is estimated to be five years. A leak repair is estimated to reduce water usage by 2.3 gallons per minute (gpm) for every leak. This savings is based on Table 4-3 of American Water Works Association (AWWA) manual M36, Water Audits, and Leak Detection, using an assumed average leak size of 0.2 in and 100 pounds per square inch (psi) pressure. Water savings per leak given in this table range from 2.3 gpm for 0.1-inch diameter hole to 38 gpm for a 0.4-inch diameter hole, thus 2.3 gallons per minute is a conservative estimate (on the lower end of the range). Over the course of one year, the water savings per leak with a 0.1-inch diameter hole is 3.7 ac-ft.



## 8.6 Water Conservation Program Coordination and Staffing Support

Since 2011 the District has a full-time water conservation coordinator water efficiency technician.

The conservation coordinator performs a variety of highly responsible technical duties in support of the District's water conservation program and water distribution and production activities. The conservation coordinator plans, organizes, tracks, implements and reports on various the District's water efficiency, distribution and production programs, conducts public outreach/education activities regarding the District's water efficiency, distribution and production programs, and investigates complaints of water waste. The conservation coordinator identifies, recommends, and implements programs and activities that will improve water use efficiency by District customers.

**Planned Implementation:** The implementation of this DMM is ongoing.

**Methods to Estimate Expected Water Savings:** Water savings from this DMM cannot be directly quantified. The effectiveness of this DMM will be evaluated by the success of the District's water conservation program.

## 8.7 Other Demand Management Measures

The District also implements large landscape and CII water use audits measures.

### 8.7.1 Large Landscape Conservation Program and Incentives

To encourage landscape conservation, District employees promote landscape water management. The District has a Demonstration Garden at the Grass Valley office which is maintained and operated by the Master Gardeners of Nevada County. The District has prepared and makes available irrigation educational information for all customers onsite at the Demonstration Garden. The District's newsletter is published four times a year and informs the public of the Demonstration Garden. The large landscape conservation program consists of actions for dedicated irrigation accounts as well as mixed metered or non-metered CII accounts. The District promotes and hosts irrigation seminars annually to reduce water usage, improve irrigation scheduling, and create more efficient irrigation systems. The educational seminars are applicable to raw water and treated water large landscape customers. Appendix L contains information on the past and upcoming irrigation seminars provided by the District.

### 8.7.2 CII Accounts Surveys

All of the District's 828 CII accounts are metered. The District has sorted these accounts to market and target those with the largest meters and highest consumption. As needed, the District will be working with those customers to reduce usage.

### 8.7.3 Agricultural Water Conservation

In 2015, the District prepared an Agricultural Water Management Plan in compliance with the Agricultural Water Management Planning Act. The Agricultural Water Management Planning Act calls for agricultural water suppliers to report on which efficient water management practices they have implemented and plan to implement and to describe the associated water use efficiency improvements. The District continues to implement water measurement and volume based pricing with an incentive pricing structure for all agricultural customers. Gaging stations to help monitor flows at intermediate locations along the canals as well as automating reading stations will continued to be installed annually. The District holds water efficiency workshops annually. The District inspects and maintains raw water supply pumps annually conducting pump efficiency tests and replacing pumps as necessary and as funding allows. The District continues to work with PG&E

to increase the flexibility in the timing and location of the PG&E supply so that the District can more efficiently manage the water supply. The District's agricultural efficient water management practices are described in detail in the recently adopted Agricultural Water Management Plan (Brown and Caldwell, 2016).

## Section 9

# References

Brown and Caldwell. 2015 Agricultural Water Management Plan. January 2016.

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CABY, Integrated Regional Water Management Plan 2013 Update. 2014.

California Irrigation Management Information System. Web-Site. ([www.cimis.water.ca.gov/cimis/welcome.jsp](http://www.cimis.water.ca.gov/cimis/welcome.jsp)). 2015

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DWR. Methodology for Calculating Baseline and Compliance Urban Per Capita Water Use. October 1, 2010.

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NID. Raw Water Master Plan Update Phase II. December 2011.

Placer County. Housing Element, Policy Document and Background Report. August 2013. SWRCB. Draft Urban Water Supplier Conservation Standard for Emergency Regulation Rulemaking 2-16. Web-Site ([www.waterboards.ca.gov/water\\_issues/programs/conservation\\_portal/docs/draft\\_supplier\\_tiers](http://www.waterboards.ca.gov/water_issues/programs/conservation_portal/docs/draft_supplier_tiers)). February 2016.

Starr Consulting et al. Yuba/Bear River Watershed Sanitary Survey 2012 Update. February 2012.

Western Regional Climate Center. Web-Site: Western U.S. Climate Historical Summaries, Climatological Data Summaries, ([www.wrcc.dri.edu](http://www.wrcc.dri.edu)). 2015



## **Appendix A: Documentation of City/County Notification**

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**NEVADA IRRIGATION DISTRICT**  
**Notice of Urban Water Management Plan**  
**Preparation and Public Hearing**

Notice is hereby given that the Nevada Irrigation District (District) is preparing an Urban Water Management Plan (UWMP).

A public review meeting of the draft UWMP will be held at the District's Water and Hydroelectric Operations (WHO) Committee meeting on April 12, 2016 at 9:00 A.M., or soon thereafter, at the NID District Board Room, 1036 West Main Street, Grass Valley, California.

A Public Hearing will be held by the Board of Directors on May 11, 2016 at 9:00 A.M., or soon thereafter, at the NID District Board Room, 1036 West Main Street, Grass Valley, California, to consider the following:

• **Review Draft Urban Water Management Plan**

The Draft 2015 Urban Water Management Plan will be available for public review approximately starting Tuesday, April 5, 2016 at the following locations:

Online at [www.nidwater.com](http://www.nidwater.com) (under Planning, click on UWMP)

Nevada Irrigation District Main Office (Paper copy)  
1036 W. Main Street  
Grass Valley, CA 95945

Yuba County Library (Digital copy)  
303 Second Street  
Marysville, CA 95901

Grass Valley Public Library (Digital copy)  
207 Mill Street  
Grass Valley, CA 95945

Placer County Library (Digital copy)  
350 Nevada Street  
Auburn, CA 95603

Madelyn Helling County Library (Digital copy)  
950 Maidu Avenue  
Nevada City, CA 95959

Lincoln Public Library (Digital copy)  
485 Twelve Bridges Drive  
Lincoln, California 95648

We respectfully request that comments be submitted in writing and submitted to Lisa Francis Tassone, Board Secretary either before or during the Public Hearing on May 11, 2016. Comments will be incorporated into the record of the Public Meeting and the UWMP. Adoption of the UWMP is proposed for May 25, 2016 by the NID Board of Directors at a regular Board meeting.

Contact Person: Gary D. King, PE, Engineering Manager or  
Chip Close, Operations Manager  
1036 W. Main Street  
Grass Valley, CA 95945  
530 273-6185

Paul Thompson, Deputy Planning Director  
Community Development Resource Agency  
Planning Services Division  
3091 County Center Drive  
Auburn, CA 95603

Gene Albaugh, City Manager  
City of Nevada City  
317 Broad Street  
Nevada City, CA 95959

Cathy Thompson  
Nevada County Board of Supervisors  
950 Maidu Avenue  
Nevada City, CA 95959

Kevin Mallen, Director  
Planning Division  
Community Development & Services Agency  
915 8<sup>th</sup> Street, Suite 123  
Marysville, CA 95901

California State Library  
Attention: Government Publications  
PO Box 942837  
Sacramento, CA 94237-0001

Madelyn Helling County Library  
980 Helling Way  
Nevada City, CA 95959

Timothy M. Kiser  
Public Works Director/City Engineer  
City of Grass Valley  
125 East Main Street  
Grass Valley, CA 95945

Ms. S. R. Jones, Executive Officer  
Nevada Co. Local Agency Formation Commission  
950 Maidu Avenue  
Nevada City, CA 95959

Einan Maisch, General Manager  
Placer County Water Agency  
PO Box 6570  
Auburn, CA 95604

Ken Grehm, Executive Director  
Placer County Public Works  
3091 County Center Drive  
Auburn, CA 95603

Mark Miller, Interim Public Services Director  
Public Services Department  
City of Lincoln  
600 Sixth Street  
Lincoln, CA 95648

Bernie Schroeder, Public Works Director  
City of Auburn  
Public Works Department  
1225 Lincoln Way, Room 3  
Auburn, CA 95603

Mark Cowin, Director  
CA Department of Water Resources  
PO Box 942836, Room 1115-1  
Sacramento, CA 94236-0001

Kurtis Zumwalt, Program Manager – Land Use  
Environmental Health Department  
Nevada Co. Community Development Agency  
950 Maidu Avenue  
Nevada City, CA 95959

Yuba County Library  
303 Second Street  
Marysville, CA 95901

Placer County Library  
350 Nevada Street  
Auburn, CA 95603

Lincoln Public Library  
485 Twelve Bridges Drive  
Lincoln, California 95648

Nevada County Farm Bureau  
PO Box 27  
Grass Valley Ca 95959

The Placer County Farm Bureau  
10120 Ophir Road  
Newcastle, CA 95658



Yuba Sutter County Farm Bureau  
475 North Palora Avenue, Suite A  
Yuba City CA 95991-4742

Yuba Local Area Formation Commission  
526 C Street  
Marysville, CA 95901

County of Placer Local Area Formation Commission  
110 Maple Street  
Auburn, CA 95603

Grass Valley Public Library  
207 Mill Street  
Grass Valley, CA 95945



## **Appendix B: Notice of Public Hearing**



## LEGAL NOTICE

**LEGAL NOTICE**  
**NEVADA IRRIGATION DISTRICT**  
**Notice of Public Hearing**

Notice is hereby given that the Nevada Irrigation District Board of Directors will hold a public hearing on the draft 2015-2016 Water Management Plan (UWMP) at the District Office, 1036 West Main Street, Grass Valley, California, on Tuesday, April 5, 2016, at 10:00 A.M., or soon thereafter at the discretion of the Board of Directors. The purpose of the hearing is to receive comments on the draft UWMP. The draft UWMP will be available for public review starting Tuesday, April 5, 2016, at the following locations:

The Draft 2015-2016 Water Management Plan will be available for public review starting Tuesday, April 5, 2016, at the following locations:

- Online at [www.nid.org](http://www.nid.org) (under Planning, click on UWMP)
- Nevada Irrigation District Main Office (Paper Copy)  
 1036 West Main Street  
 Grass Valley, CA 95945
- Local Libraries (Paper Copy)  
 Grass Valley Library  
 Madeline Library  
 Yuba County Library  
 Placer County Library  
 Lincoln Library

We request that comments be submitted in writing to Lisa Francis, District Secretary, either before or during the Public Hearing on April 5, 2016. Comments will be incorporated into the final UWMP. The final UWMP will be adopted by the Board of Directors on May 25, 2016 by the NID Board of Directors at a public hearing.

Contact: Lisa Francis, District Secretary  
 1036 West Main Street  
 Grass Valley, CA 95945  
 (530) 223-1111

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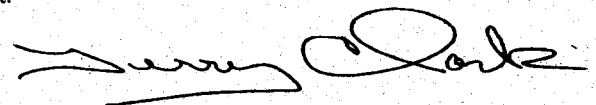
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**STATE OF CALIFORNIA**  
**County of Placer**

I am a citizen of the United States and employed by a publication in the County aforesaid. I am over the age of eighteen years, and not a party to the mentioned matter. I am the principal clerk of The Auburn Journal, a newspaper of general circulation, in the City of Auburn, which is printed and published in the County of Placer. This newspaper has been judged a newspaper of general circulation by the Superior Court of the State of California, in and for the County of Placer, on the date of May 26, 1952 (Case Number 17407). The notice, of which the attached is a printed copy (set in type not smaller than nonpareil) has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

MARCH 15, 22

I certify, under penalty of perjury, that the foregoing is true and correct.



Terry Clark

Dated in Auburn, California

MARCH 22, 2016

**PROOF OF PUBLICATION**  
**THE AUBURN JOURNAL**  
 1030 HIGH STREET  
 AUBURN, CA 956-5910

## Public Notices

Agency's Business Office located in Auburn, California. The RFQ documents may be obtained from the Public Purchase website at <http://www.publicpurchase.com/gems/pcwa.ca/buyer/public/home>. Registration is required. Responses to this RFQ will be considered firm and irrevocable for Sixty (60) days after the due date for receipt of responses and/or sixty (60) days after receipt of a best and final offer, if one is submitted. This RFQ may result in an agreement for services or be part of a future Request for Proposal process.

/s/ Joseph Parker

Purchasing Agent

March 8, 2016

PUBLISHED IN AUBURN JOURNAL: MARCH 11, 13, 15, 2016

16613441

### LEGAL NOTICE NEVADA IRRIGATION DISTRICT

#### Notice of Urban Water Management Plan Preparation and Public Hearing

Notice is hereby given that the Nevada Irrigation District (District) is preparing an Urban Water Management Plan (UWMP).

A public review meeting of the draft UWMP will be held at the District's Water and Hydroelectric Operations (WHO) Committee meeting on April 12, 2016 at 9:00 A.M., or soon thereafter, at the NID District Board Room, 1036 West Main Street, Grass Valley, California.

A Public Hearing will be held by the Board of Directors on May 11, 2016 at 9:00 A.M., or soon thereafter, at the NID District Board Room, 1036 West Main Street, Grass Valley, California, to consider the following:

#### ●Review Draft Urban Water Management Plan

The Draft 2015 Urban Water Management Plan will be available for public review approximately starting Tuesday, April 5, 2016 at the following locations:

Online at [www.nidwater.com](http://www.nidwater.com) (under Planning, click on UWMP)

Nevada Irrigation District Main Office (Paper Copy)  
1036 W. Main Street  
Grass Valley, CA 95945

#### Local Libraries (Digital Copy):

Grass Valley Public Library  
Madelyn Helling County Library  
Yuba County Library  
Placer County Library  
Lincoln Public Library

We respectfully request that comments be submitted in writing to Lisa Francis Tassone, Board Secretary, either before or during the Public Hearing on May 11, 2016. Comments will be incorporated into the record of the Public Meeting and the UWMP. Adoption of the UWMP is proposed for May 25, 2016 by the NID Board of Directors at a regular Board meeting.

Contact: Gary D. King, PE, Engineering Manager or  
Chip Close, Operations Manager  
1036 W. Main Street  
Grass Valley, CA 95945  
(530) 273-6185

PUBLISHED IN AUBURN JOURNAL: MARCH 15, 22, 2016

**NEVADA COUNTY  
PUBLISHING COMPANY  
Grass Valley, CA**

**AFFIDAVIT OF PUBLICATION  
THE UNION**

**Customer Account: # 1174302**  
**Reference: NEVADA IRRIGATION DISTRICT**  
**Notice of Urban**

**Legal Account**

Nevada Irrigation District  
1036 West Main Street  
GRASS VALLEY, CA 95945

**Attn: Legal**

**County of Nevada, State of Calif.** The undersigned, **Leslie Robbins**, being the principal clerk of the **Nevada County Publishing Co.** declares that the **Nevada County Publishing Co.** now is, and during all times herein named, was a corporation duly organized and existing under the laws of the State of California, and now is, and during all times herein named was the printer of **THE UNION**, a newspaper of general circulation, as defined by Section 6000 of the Government Code of the State of California, printed and published daily (Sundays excepted) in the City of Grass Valley, County of Nevada, State of California, and that affiant is the principal clerk of said Nevada County Publishing Co.

That the printed advertisement hereto annexed was published in the said UNION, for the full required period of **2** time(s) commencing on **3/15/2016**, and ending on **3/22/2016**, all days inclusive.

I certify, under penalty of perjury, the foregoing is true and correct.

Signed: Leslie Robbins  
Legals Advertising Clerk

**Proof and Statement of Publication**  
**Ad #: 11955857D**

**NEVADA IRRIGATION DISTRICT  
Notice of  
Urban Water Management Plan Preparation  
and Public Hearing**

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1036 W. Main Street  
Grass Valley, CA 95945  
(530) 273-6185

**Publish: March 15, 22, 2016**

**Ad #11955857**



**AFFIDAVIT OF PUBLICATION**  
(2015.5 C.C.P.)

RECEIVED

MAR 23 2016

CLAYTON DISTRICT

**APPEAL-DEMOCRAT**

1530 Ellis Lake Drive, Marysville, CA 95901 \* (530) 749-4700

**STATE OF CALIFORNIA \* Counties of Yuba and Sutter**

I am not a party to, nor interested in the above entitled matter. I am the principal clerk of the printer and publisher of THE APPEAL-DEMOCRAT, a newspaper of general circulation, printed & published in the City of Marysville, County of Yuba, to which Newspaper has been adjudged a newspaper of general circulation by The Superior Court of the County of Yuba, State of California under the date of November 9, 1951, No. 11481, and County of Sutter to which Newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Sutter, State of California under the date of May 17, 1999, Case No.CV PT99-0819. The Notice, of which the annexed is a copy, appeared in said newspaper on the following dates:

**March 14 & 21, 2016**

I declare under penalty of perjury that the foregoing is true and correct.

**March 21, 2016**

*Nancy Brown*

Date

Signature

**Nevada Irrigation District**

**Notice of Urban Water Management**

**COPY:**

**NEVADA IRRIGATION DISTRICT**  
**Notice of**  
**Urban Water Management Plan Preparation**  
**and Public Hearing**

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March 14 & 21, 2016 Ad #00189090



## **Appendix C: Adoption Resolution**

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## **RESOLUTION No. 2016-18**

OF THE BOARD OF DIRECTORS OF THE NEVADA IRRIGATION DISTRICT

### **ADOPTING, DIRECTING, FILING, AND IMPLEMENTING THE NEVADA IRRIGATION DISTRICT URBAN WATER MANAGEMENT PLAN**

**WHEREAS**, the California Legislature enacted Assembly Bill 797 (Water Code Section 10610 et seq., known as the Urban Water Management Planning Act) during the 1983-84 Regular Session, and as amended subsequently, which mandates that every supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan, the primary objective of which is to plan for the conservation and efficient use of water; and

**WHEREAS**, the District is supplier of water providing urban water to over 19,000 connections; and

**WHEREAS**, the Plan shall be periodically reviewed at least once every five years, and that the District shall make any amendments or changes to its Plan which are indicated by the review; and

**WHEREAS**, California Department of Water Resources requires that Plan be adopted by June 2016, after public review and hearing, and filed with the California Department of Water Resources within 30 days of adoption; and

**WHEREAS**, the District has, therefore, prepared and circulated a draft Urban Water Management Plan for public review and review by the Counties and Cities within the District's service area, and other interested parties, and a properly noticed public hearing regarding said Plan, including publication of notice as required by Government Code 6066 was held by the District's Board of Directors on May 11, 2016; and

**WHEREAS**, the District did prepare and shall file said Plan with the California Department of Water Resources by July 1, 2016.

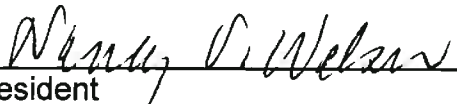
**NOW, THEREFORE BE IT RESOLVED**, by the Board of Directors of the Nevada Irrigation District as follows:

- 1) The Urban Water Management Plan, 2015 Update, is hereby adopted and ordered filed with the District;
- 2) The Secretary of the Board of Directors is hereby authorized and directed to file the Urban Water Management Plan, 2015 Update, with the California Department of Water Resources within 30 days after this date;


- 3) The General Manager is hereby authorized and directed to implement the Water Conservation Programs as set forth in the Urban Water Management Plan, 2015 Update, which includes water shortage contingency analysis and recommendations to the Board of Directors regarding the necessary procedures, rules and regulations to carry out effective and equitable water conservation and water recycling programs;
- 4) In a water shortage, the General Manager is hereby authorized to declare a Water Shortage Emergency according to the Water Shortage Stages and Required Actions indicated in the Plan, and implement necessary elements of the Plan; and
- 5) The General Manager shall recommend to the Board of Directors additional procedures, rules and regulations to carry out effective and equitable allocation of water resources.
- 6) The General Manager or his designee will make a copy of the District's adopted 2015 Urban Water Management Plan available for public review during normal business hours within 30 days of its adoption.

**PASSED AND ADOPTED** by the Board of Directors of the Nevada Irrigation District at a regular meeting held on the 25<sup>th</sup> day of May 2016, by the following vote:

AYES:	Directors:	Drew, Miller, Morebeck, Wilcox, Weber
NOES:		None
ABSTAINING:		None
ABSENT:		None

  
\_\_\_\_\_  
President

ATTEST:

  
\_\_\_\_\_  
Board Secretary



## **Appendix D: DWR UWMP Checklist**

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## Checklist Arranged by Subject

CWC Section	UWMP Requirement	Subject	Guidebook Location	UWMP Location (Optional Column for Agency Use)
10620(b)	Every person that becomes an urban water supplier shall adopt an urban water management plan within one year after it has become an urban water supplier.	Plan Preparation	Section 2.1	Section 1.1
10620(d)(2)	Coordinate the preparation of its plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies, to the extent practicable.	Plan Preparation	Section 2.5.2	Section 1.3
10642	Provide supporting documentation that the water supplier has encouraged active involvement of diverse social, cultural, and economic elements of the population within the service area prior to and during the preparation of the plan.	Plan Preparation	Section 2.5.2	Section 1.3
10631(a)	Describe the water supplier service area.	System Description	Section 3.1	Section 2.1
10631(a)	Describe the climate of the service area of the supplier.	System Description	Section 3.3	Section 2.2
10631(a)	Provide population projections for 2020, 2025, 2030, and 2035.	System Description	Section 3.4	Section 2.3
10631(a)	Describe other demographic factors affecting the supplier's water management planning.	System Description	Section 3.4	Section 2.3
10631(a)	Indicate the current population of the service area.	System Description and Baselines and Targets	Sections 3.4 and 5.4	Section 2.3
10631(e)(1)	Quantify past, current, and projected water use, identifying the uses among water use sectors.	System Water Use	Section 4.2	Section 3.1
10631(e)(3)(A)	Report the distribution system water loss for the most recent 12-month period available.	System Water Use	Section 4.3	Section 3.2
10631.1(a)	Include projected water use needed for lower income housing projected in the service area of the supplier.	System Water Use	Section 4.5	Section 3.4
10608.20(b)	Retail suppliers shall adopt a 2020 water use target using one of four methods.	Baselines and Targets	Section 5.7 and App E	Section 4.1
10608.20(e)	Retail suppliers shall provide baseline daily per capita water use, urban water use target, interim urban water use target, and	Baselines and Targets	Chapter 5 and App E	Appendix G

	compliance daily per capita water use, along with the bases for determining those estimates, including references to supporting data.			
<b>10608.22</b>	Retail suppliers' per capita daily water use reduction shall be no less than 5 percent of base daily per capita water use of the 5 year baseline. This does not apply if the supplier's base GPCD is at or below 100.	Baselines and Targets	Section 5.7.2	Section 4.3.2 Appendix G
<b>10608.24(a)</b>	Retail suppliers shall meet their interim target by December 31, 2015.	Baselines and Targets	Section 5.8 and App E	4.6.3 Appendix G
<b>10608.24(d)(2)</b>	If the retail supplier adjusts its compliance GPCD using weather normalization, economic adjustment, or extraordinary events, it shall provide the basis for, and data supporting the adjustment.	Baselines and Targets	Section 5.8.2	N/A 4.6.3 Appendix G
<b>10608.36</b>	Wholesale suppliers shall include an assessment of present and proposed future measures, programs, and policies to help their retail water suppliers achieve targeted water use reductions.	Baselines and Targets	Section 5.1	N/A
<b>10608.40</b>	Retail suppliers shall report on their progress in meeting their water use targets. The data shall be reported using a standardized form.	Baselines and Targets	Section 5.8 and App E	4.6.3 Appendix G
<b>10631(b)</b>	Identify and quantify the existing and planned sources of water available for 2015, 2020, 2025, 2030, and 2035.	System Supplies	Chapter 6	Section 5-9
<b>10631(b)</b>	Indicate whether groundwater is an existing or planned source of water available to the supplier.	System Supplies	Section 6.2	Section 5.2
<b>10631(b)(1)</b>	Indicate whether a groundwater management plan has been adopted by the water supplier or if there is any other specific authorization for groundwater management. Include a copy of the plan or authorization.	System Supplies	Section 6.2.2	N/A
<b>10631(b)(2)</b>	Describe the groundwater basin.	System Supplies	Section 6.2.1	N/A
<b>10631(b)(2)</b>	Indicate if the basin has been adjudicated and include a copy of the court order or decree and a description of the amount of water the supplier has the legal right to pump.	System Supplies	Section 6.2.2	N/A
<b>10631(b)(2)</b>	For unadjudicated basins, indicate whether or not the department has identified the basin as overdrafted, or projected to become overdrafted. Describe efforts by the supplier to eliminate the long-term overdraft condition.	System Supplies	Section 6.2.3	N/A
<b>10631(b)(3)</b>	Provide a detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water	System Supplies	Section 6.2.4	N/A

	supplier for the past five years			
<b>10631(b)(4)</b>	Provide a detailed description and analysis of the amount and location of groundwater that is projected to be pumped.	System Supplies	Sections 6.2 and 6.9	N/A
<b>10631(d)</b>	Describe the opportunities for exchanges or transfers of water on a short-term or long-term basis.	System Supplies	Section 6.7	Section 5.7
<b>10631(g)</b>	Describe the expected future water supply projects and programs that may be undertaken by the water supplier to address water supply reliability in average, single-dry, and multiple-dry years.	System Supplies	Section 6.8	Section 5.8
<b>10631(i)</b>	Describe desalinated water project opportunities for long-term supply.	System Supplies	Section 6.6	Section 5.6
<b>10631(j)</b>	Retail suppliers will include documentation that they have provided their wholesale supplier(s) – if any - with water use projections from that source.	System Supplies	Section 2.5.1	N/A
<b>10631(j)</b>	Wholesale suppliers will include documentation that they have provided their urban water suppliers with identification and quantification of the existing and planned sources of water available from the wholesale to the urban supplier during various water year types.	System Supplies	Section 2.5.1	N/A
<b>10633</b>	For wastewater and recycled water, coordinate with local water, wastewater, groundwater, and planning agencies that operate within the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.1	Section 5.5.1
<b>10633(a)</b>	Describe the wastewater collection and treatment systems in the supplier's service area. Include quantification of the amount of wastewater collected and treated and the methods of wastewater disposal.	System Supplies (Recycled Water)	Section 6.5.2	Section 5.5.2
<b>10633(b)</b>	Describe the quantity of treated wastewater that meets recycled water standards, is being discharged, and is otherwise available for use in a recycled water project.	System Supplies (Recycled Water)	Section 6.5.2.2	Section 5.5.2
<b>10633(c)</b>	Describe the recycled water currently being used in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.3 and 6.5.4	Section 5.5.4
<b>10633(d)</b>	Describe and quantify the potential uses of recycled water and provide a determination of the technical and economic feasibility of those uses.	System Supplies (Recycled Water)	Section 6.5.4	Section 5.5
<b>10633(e)</b>	Describe the projected use of recycled water within the supplier's service area at the end of 5, 10, 15, and 20 years, and a description of the actual use of recycled water in comparison to uses previously projected.	System Supplies (Recycled Water)	Section 6.5.4	Section 5.5.4

<b>10633(f)</b>	Describe the actions which may be taken to encourage the use of recycled water and the projected results of these actions in terms of acre-feet of recycled water used per year.	System Supplies (Recycled Water)	Section 6.5.5	Section 5.5.5
<b>10633(g)</b>	Provide a plan for optimizing the use of recycled water in the supplier's service area.	System Supplies (Recycled Water)	Section 6.5.5	Section 5.5.5
<b>10620(f)</b>	Describe water management tools and options to maximize resources and minimize the need to import water from other regions.	Water Supply Reliability Assessment	Section 7.4	Section 6.4
<b>10631(c)(1)</b>	Describe the reliability of the water supply and vulnerability to seasonal or climatic shortage.	Water Supply Reliability Assessment	Section 7.1	Section 6.1
<b>10631(c)(1)</b>	Provide data for an average water year, a single dry water year, and multiple dry water years	Water Supply Reliability Assessment	Section 7.2	Section 6.2
<b>10631(c)(2)</b>	For any water source that may not be available at a consistent level of use, describe plans to supplement or replace that source.	Water Supply Reliability Assessment	Section 7.1	N/A
<b>10634</b>	Provide information on the quality of existing sources of water available to the supplier and the manner in which water quality affects water management strategies and supply reliability	Water Supply Reliability Assessment	Section 7.1	Section 6.1
<b>10635(a)</b>	Assess the water supply reliability during normal, dry, and multiple dry water years by comparing the total water supply sources available to the water supplier with the total projected water use over the next 20 years.	Water Supply Reliability Assessment	Section 7.3	Section 6.3
<b>10632(a) and 10632(a)(1)</b>	Provide an urban water shortage contingency analysis that specifies stages of action and an outline of specific water supply conditions at each stage.	Water Shortage Contingency Planning	Section 8.1	Section 7.1
<b>10632(a)(2)</b>	Provide an estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency.	Water Shortage Contingency Planning	Section 8.9	Section 7.9
<b>10632(a)(3)</b>	Identify actions to be undertaken by the urban water supplier in case of a catastrophic interruption of water supplies.	Water Shortage Contingency Planning	Section 8.8	Section 7.8
<b>10632(a)(4)</b>	Identify mandatory prohibitions against specific water use practices during water shortages.	Water Shortage Contingency Planning	Section 8.2	Section 7.2
<b>10632(a)(5)</b>	Specify consumption reduction methods in the most restrictive stages.	Water Shortage Contingency Planning	Section 8.4	Section 7.4
<b>10632(a)(6)</b>	Indicated penalties or charges for excessive use, where applicable.	Water Shortage Contingency	Section 8.3	Section 7.3

		Planning		
<b>10632(a)(7)</b>	Provide an analysis of the impacts of each of the actions and conditions in the water shortage contingency analysis on the revenues and expenditures of the urban water supplier, and proposed measures to overcome those impacts.	Water Shortage Contingency Planning	Section 8.6	Section 7.6
<b>10632(a)(8)</b>	Provide a draft water shortage contingency resolution or ordinance.	Water Shortage Contingency Planning	Section 8.7	Drought Contingency Plan Appendix J
<b>10632(a)(9)</b>	Indicate a mechanism for determining actual reductions in water use pursuant to the water shortage contingency analysis.	Water Shortage Contingency Planning	Section 8.5	Section 7.5
<b>10631(f)(1)</b>	Retail suppliers shall provide a description of the nature and extent of each demand management measure implemented over the past five years. The description will address specific measures listed in code.	Demand Management Measures	Sections 9.2 and 9.3	Section 8
<b>10631(f)(2)</b>	Wholesale suppliers shall describe specific demand management measures listed in code, their distribution system asset management program, and supplier assistance program.	Demand Management Measures	Sections 9.1 and 9.3	N/A
<b>10631(j)</b>	CUWCC members may submit their 2013-2014 CUWCC BMP annual reports in lieu of, or in addition to, describing the DMM implementation in their UWMPs. This option is only allowable if the supplier has been found to be in full compliance with the CUWCC MOU.	Demand Management Measures	Section 9.5	N/A
<b>10608.26(a)</b>	Retail suppliers shall conduct a public hearing to discuss adoption, implementation, and economic impact of water use targets.	Plan Adoption, Submittal, and Implementation	Section 10.3	Section 1.4
<b>10621(b)</b>	Notify, at least 60 days prior to the public hearing, any city or county within which the supplier provides water that the urban water supplier will be reviewing the plan and considering amendments or changes to the plan.	Plan Adoption, Submittal, and Implementation	Section 10.2.1	Section 1.4 Appendix A
<b>10621(d)</b>	Each urban water supplier shall update and submit its 2015 plan to the department by July 1, 2016.	Plan Adoption, Submittal, and Implementation	Sections 10.3.1 and 10.4	Section 1.4
<b>10635(b)</b>	Provide supporting documentation that Water Shortage Contingency Plan has been, or will be, provided to any city or county within which it provides water, no later than 60 days after the submission of the plan to DWR.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	Section 1.4
<b>10642</b>	Provide supporting documentation that the urban water supplier made the plan available	Plan Adoption, Submittal, and	Sections 10.2.2, 10.3,	Appendix B



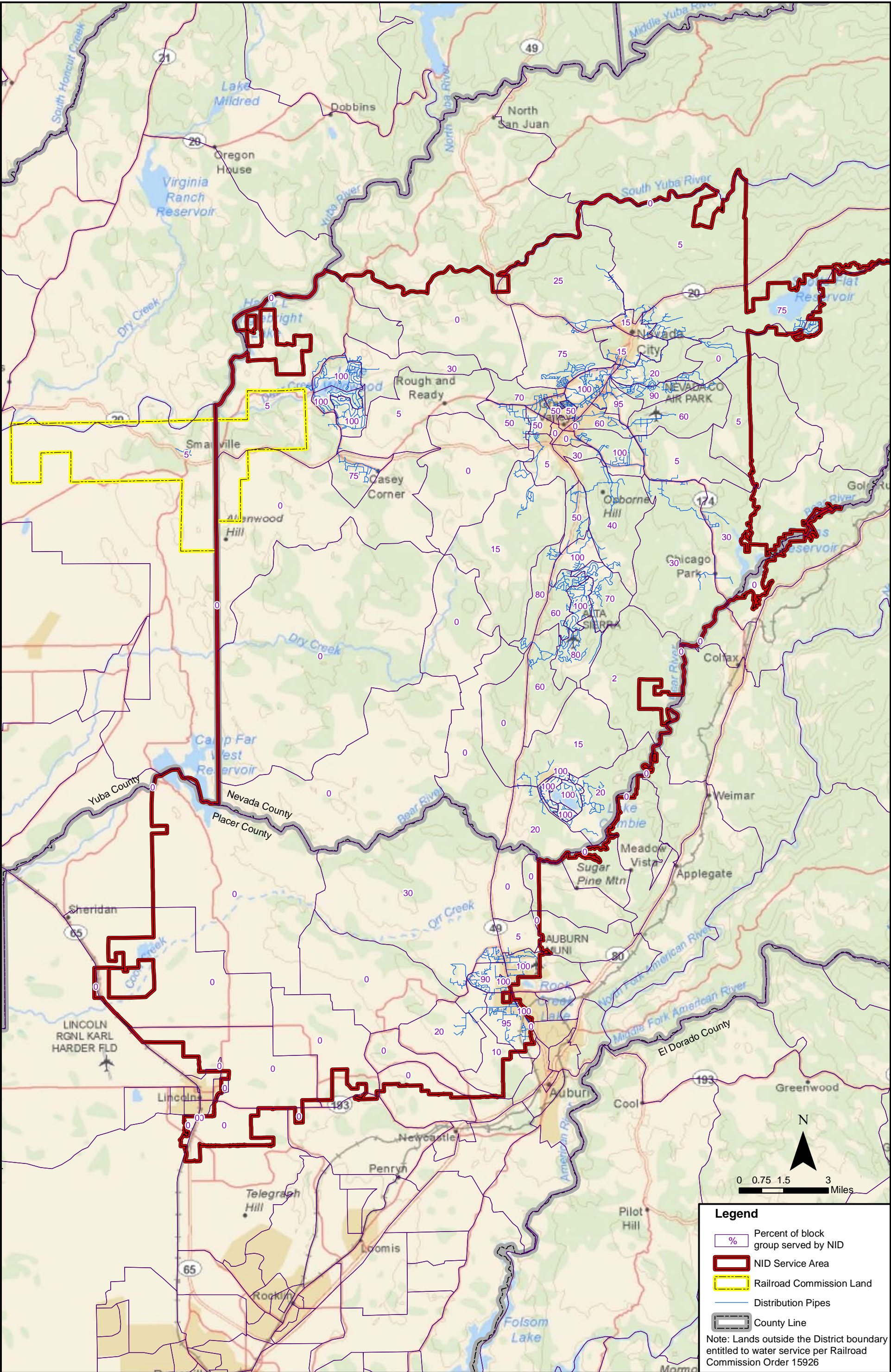
**Checklist** Final Draft (from DWR 2015 UWMP Final Draft Guidebook, January 2016)

	for public inspection, published notice of the public hearing, and held a public hearing about the plan.	Implementation	and 10.5	
<b>10642</b>	The water supplier is to provide the time and place of the hearing to any city or county within which the supplier provides water.	Plan Adoption, Submittal, and Implementation	Sections 10.2.1	Section 1.4 Appendix A
<b>10642</b>	Provide supporting documentation that the plan has been adopted as prepared or modified.	Plan Adoption, Submittal, and Implementation	Section 10.3.1	Section 1.4 Appendix C
<b>10644(a)</b>	Provide supporting documentation that the urban water supplier has submitted this UWMP to the California State Library.	Plan Adoption, Submittal, and Implementation	Section 10.4.3	Section 1.4
<b>10644(a)(1)</b>	Provide supporting documentation that the urban water supplier has submitted this UWMP to any city or county within which the supplier provides water no later than 30 days after adoption.	Plan Adoption, Submittal, and Implementation	Section 10.4.4	Section 1.4
<b>10644(a)(2)</b>	The plan, or amendments to the plan, submitted to the department shall be submitted electronically.	Plan Adoption, Submittal, and Implementation	Sections 10.4.1 and 10.4.2	Section 1.4
<b>10645</b>	Provide supporting documentation that, not later than 30 days after filing a copy of its plan with the department, the supplier has or will make the plan available for public review during normal business hours.	Plan Adoption, Submittal, and Implementation	Section 10.5	Section 1.4

## **Appendix E: 2000 and 2010 Population Analysis**







BROWN AND CALDWELL	PROJECT # 139620	PROJECT Urban Water Management Plan	Figure 2
	DATE 3-8-2011	TITLE 2000 Census Block Groups Served by NID Retail Water System	





NID Urban Water Management Plan  
Census Block Tracks within NID Retail Water System Service Area

Geography Identifier	Geography	Percentage of block group within NID service area
Block Group 1, Census Tract 1.02, Nevada County, California	15000US060570001021	100%
Block Group 1, Census Tract 1.03, Nevada County, California	15000US060570001031	100%
Block Group 1, Census Tract 1.04, Nevada County, California	15000US060570001041	100%
Block Group 1, Census Tract 1.05, Nevada County, California	15000US060570001051	100%
Block Group 1, Census Tract 2, Nevada County, California	15000US060570002001	100%
Block Group 1, Census Tract 205, Placer County, California	15000US060610205001	34%
Block Group 1, Census Tract 212, Placer County, California	15000US060610212001	2%
Block Group 1, Census Tract 213.01, Placer County, California	15000US060610213011	0%
Block Group 1, Census Tract 213.03, Placer County, California	15000US060610213031	17%
Block Group 1, Census Tract 213.04, Placer County, California	15000US060610213041	67%
Block Group 1, Census Tract 214.01, Placer County, California	15000US060610214011	11%
Block Group 1, Census Tract 214.02, Placer County, California	15000US060610214021	0%
Block Group 1, Census Tract 215.01, Placer County, California	15000US060610215011	100%
Block Group 1, Census Tract 215.02, Placer County, California	15000US060610215021	1%
Block Group 1, Census Tract 216, Placer County, California	15000US060610216001	100%
Block Group 1, Census Tract 218.01, Placer County, California	15000US060610218011	17%
Block Group 1, Census Tract 218.02, Placer County, California	15000US060610218021	36%
Block Group 1, Census Tract 219.01, Placer County, California	15000US060610219011	2%
Block Group 1, Census Tract 219.02, Placer County, California	15000US060610219021	8%
Block Group 1, Census Tract 220.01, Placer County, California	15000US060610220011	8%
Block Group 1, Census Tract 220.02, Placer County, California	15000US060610220021	1%
Block Group 1, Census Tract 3, Nevada County, California	15000US060570003001	100%
Block Group 1, Census Tract 4.01, Nevada County, California	15000US060570004011	100%
Block Group 1, Census Tract 4.02, Nevada County, California	15000US060570004021	100%
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Block Group 1, Census Tract 7.01, Nevada County, California	15000US060570007011	34%
Block Group 1, Census Tract 7.02, Nevada County, California	15000US060570007021	100%
Block Group 1, Census Tract 8.01, Nevada County, California	15000US060570008011	98%
Block Group 1, Census Tract 8.02, Nevada County, California	15000US060570008021	100%
Block Group 1, Census Tract 9, Nevada County, California	15000US060570009001	0%
Block Group 2, Census Tract 1.02, Nevada County, California	15000US060570001022	100%
Block Group 2, Census Tract 1.03, Nevada County, California	15000US060570001032	90%
Block Group 2, Census Tract 1.04, Nevada County, California	15000US060570001042	100%
Block Group 2, Census Tract 1.05, Nevada County, California	15000US060570001052	100%
Block Group 2, Census Tract 2, Nevada County, California	15000US060570002002	100%
Block Group 2, Census Tract 213.01, Placer County, California	15000US060610213012	0%
Block Group 2, Census Tract 213.04, Placer County, California	15000US060610213042	73%
Block Group 2, Census Tract 214.01, Placer County, California	15000US060610214012	43%
Block Group 2, Census Tract 215.01, Placer County, California	15000US060610215012	84%
Block Group 2, Census Tract 216, Placer County, California	15000US060610216002	100%
Block Group 2, Census Tract 218.01, Placer County, California	15000US060610218012	5%
Block Group 2, Census Tract 218.02, Placer County, California	15000US060610218022	13%
Block Group 2, Census Tract 219.02, Placer County, California	15000US060610219022	5%
Block Group 2, Census Tract 220.02, Placer County, California	15000US060610220022	1%
Block Group 2, Census Tract 3, Nevada County, California	15000US060570003002	100%
Block Group 2, Census Tract 4.01, Nevada County, California	15000US060570004012	100%
Block Group 2, Census Tract 4.02, Nevada County, California	15000US060570004022	100%
Block Group 2, Census Tract 5.01, Nevada County, California	15000US060570005012	100%
Block Group 2, Census Tract 5.02, Nevada County, California	15000US060570005022	100%
Block Group 2, Census Tract 6, Nevada County, California	15000US060570006002	100%
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Block Group 2, Census Tract 7.02, Nevada County, California	15000US060570007022	100%
Block Group 2, Census Tract 8.01, Nevada County, California	15000US060570008012	51%
Block Group 2, Census Tract 8.02, Nevada County, California	15000US060570008022	100%
Block Group 2, Census Tract 9, Nevada County, California	15000US060570009002	28%
Block Group 3, Census Tract 1.02, Nevada County, California	15000US060570001023	100%
Block Group 3, Census Tract 1.03, Nevada County, California	15000US060570001033	100%
Block Group 3, Census Tract 1.04, Nevada County, California	15000US060570001043	100%

NID Urban Water Management Plan  
Census Block Tracks within NID Retail Water System Service Area

Geography Identifier	Geography	Percentage of block group within NID service area
Block Group 3, Census Tract 1.05, Nevada County, California	15000US060570001053	100%
Block Group 3, Census Tract 2, Nevada County, California	15000US060570002003	100%
Block Group 3, Census Tract 213.04, Placer County, California	15000US060610213043	90%
Block Group 3, Census Tract 214.01, Placer County, California	15000US060610214013	1%
Block Group 3, Census Tract 215.01, Placer County, California	15000US060610215013	73%
Block Group 3, Census Tract 216, Placer County, California	15000US060610216003	99%
Block Group 3, Census Tract 218.01, Placer County, California	15000US060610218013	100%
Block Group 3, Census Tract 4.01, Nevada County, California	15000US060570004013	100%
Block Group 3, Census Tract 4.02, Nevada County, California	15000US060570004023	100%
Block Group 3, Census Tract 5.01, Nevada County, California	15000US060570005013	100%
Block Group 3, Census Tract 5.02, Nevada County, California	15000US060570005023	100%
Block Group 3, Census Tract 6, Nevada County, California	15000US060570006003	100%
Block Group 3, Census Tract 7.01, Nevada County, California	15000US060570007013	100%
Block Group 3, Census Tract 8.01, Nevada County, California	15000US060570008013	41%
Block Group 3, Census Tract 8.02, Nevada County, California	15000US060570008023	100%
Block Group 4, Census Tract 1.02, Nevada County, California	15000US060570001024	100%
Block Group 4, Census Tract 1.03, Nevada County, California	15000US060570001034	100%
Block Group 4, Census Tract 205, Placer County, California	15000US060610205004	76%
Block Group 4, Census Tract 213.04, Placer County, California	15000US060610213044	87%
Block Group 4, Census Tract 216, Placer County, California	15000US060610216004	100%
Block Group 4, Census Tract 218.01, Placer County, California	15000US060610218014	99%
Block Group 4, Census Tract 4.01, Nevada County, California	15000US060570004014	100%
Block Group 4, Census Tract 4.02, Nevada County, California	15000US060570004024	89%
Block Group 4, Census Tract 5.01, Nevada County, California	15000US060570005014	100%
Block Group 4, Census Tract 5.02, Nevada County, California	15000US060570005024	100%
Block Group 4, Census Tract 6, Nevada County, California	15000US060570006004	100%
Block Group 4, Census Tract 7.01, Nevada County, California	15000US060570007014	100%
Block Group 4, Census Tract 8.02, Nevada County, California	15000US060570008024	100%
Block Group 5, Census Tract 1.03, Nevada County, California	15000US060570001035	100%
Block Group 5, Census Tract 5.01, Nevada County, California	15000US060570005015	100%
Block Group 5, Census Tract 6, Nevada County, California	15000US060570006005	100%
Block Group 5, Census Tract 7.01, Nevada County, California	15000US060570007015	100%
Block Group 6, Census Tract 1.03, Nevada County, California	15000US060570001036	100%
Block Group 6, Census Tract 7.01, Nevada County, California	15000US060570007016	45%
Block Group 7, Census Tract 1.03, Nevada County, California	15000US060570001037	100%
Block Group 8, Census Tract 1.03, Nevada County, California	15000US060570001038	100%
Block Group 1, Census Tract 409.01, Yuba County, California	15000US061150409011	5%

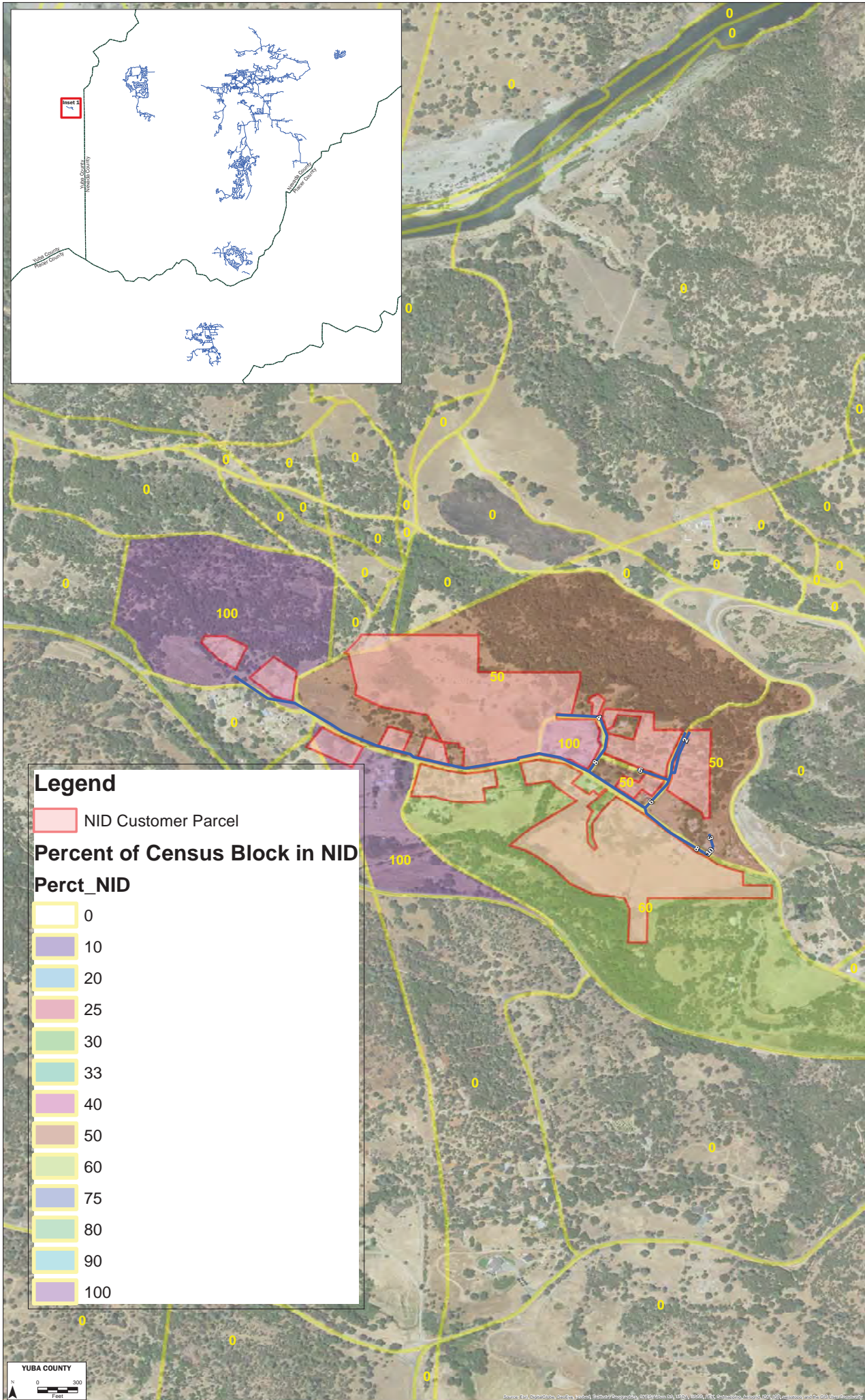
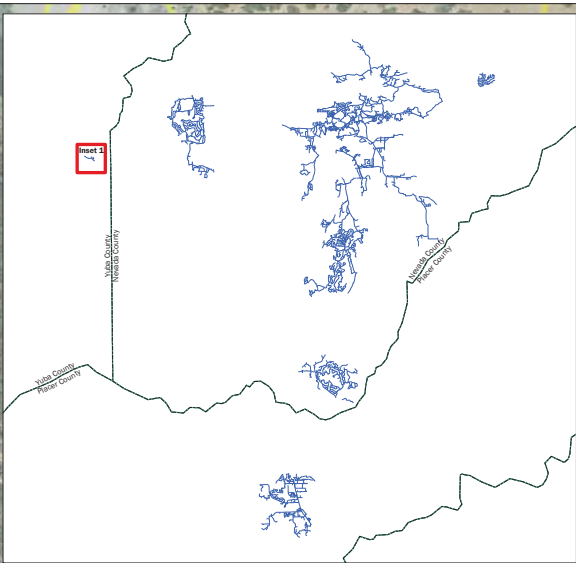


NID Urban Water Management Plan  
Census Block Tracks within NID Retail Water System Service Area

Percent of block group within NID service area that is service by NID distribution system
100%
15%
50%
60%
0%
0%
0%
0%
0%
0%
0%
0%
20%
0%
30%
0%
100%
0%
0%
0%
0%
0%
30%
75%
50%
0%
95%
5%
30%
25%
15%
0%
70%
2%
100%
0%
0%
0%
0%
0%
95%
0%
0%
100%
0%
0%
15%
100%
0%
100%
50%
60%
0%
40%
5%
15%
0%
60%
20%
80%

NID Urban Water Management Plan  
Census Block Tracks within NID Retail Water System Service Area

Percent of block group within NID service area that is service by NID distribution system
0%
0%
0%
0%
10%
90%
5%
100%
5%
70%
5%
100%
90%
75%
20%
80%
100%
0%
0%
100%
0%
100%
5%
50%
50%
30%
60%
75%
100%
0%
0%
5%
20%
30%
100%
100%
100%

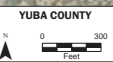


### Legend

NID Customer Parcel

### Percent of Census Block in NID

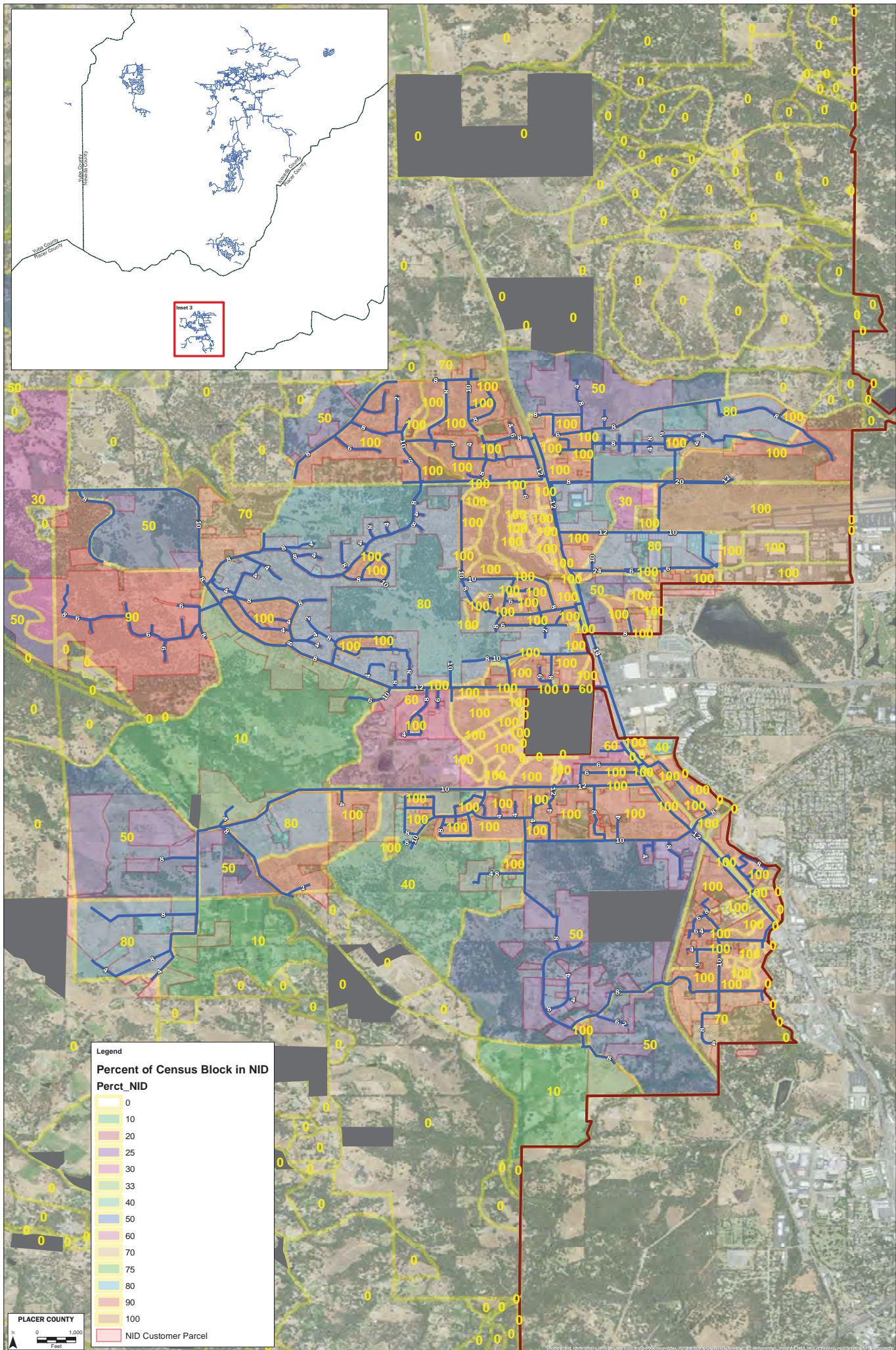
Perct\_NID



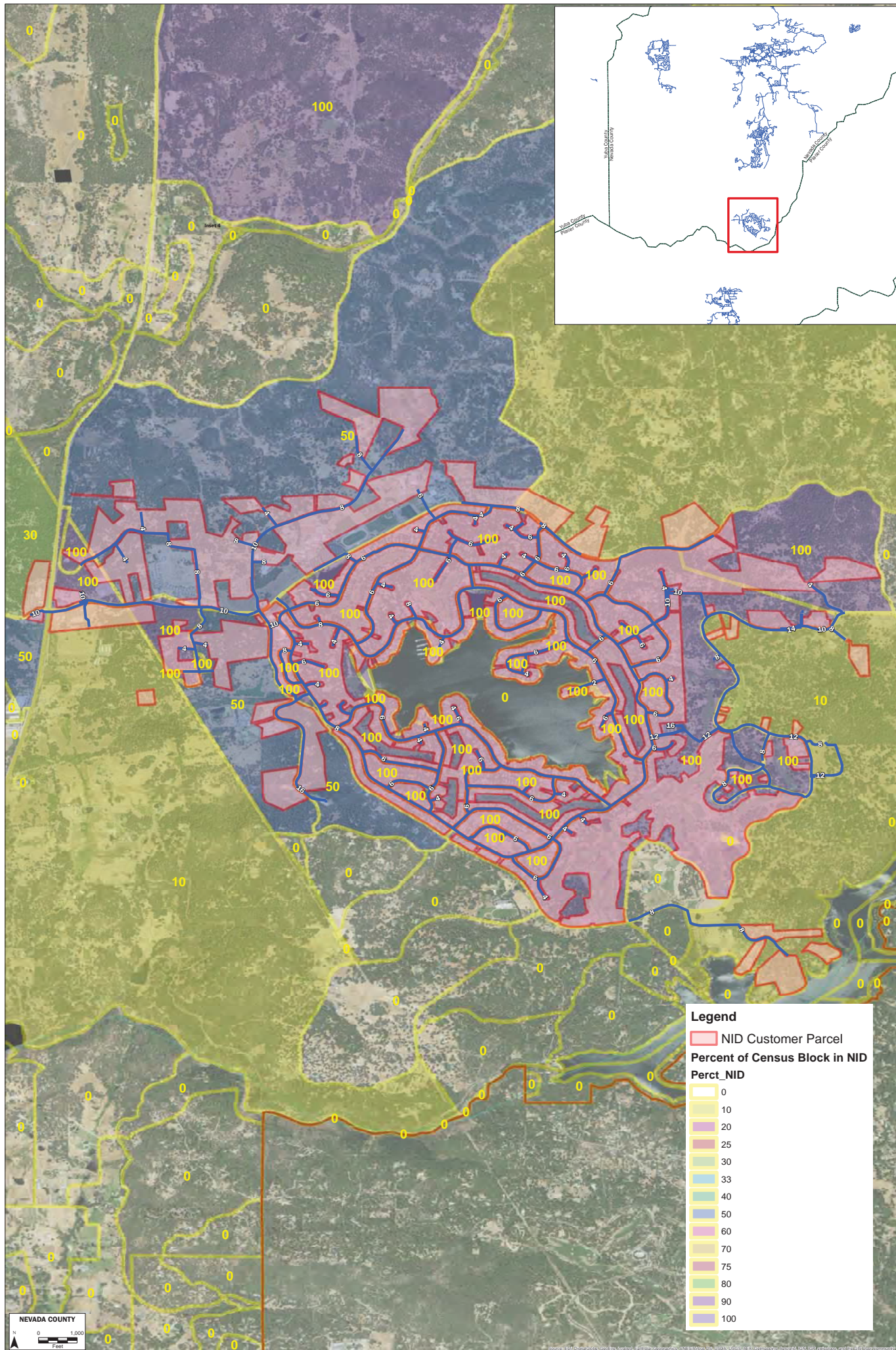




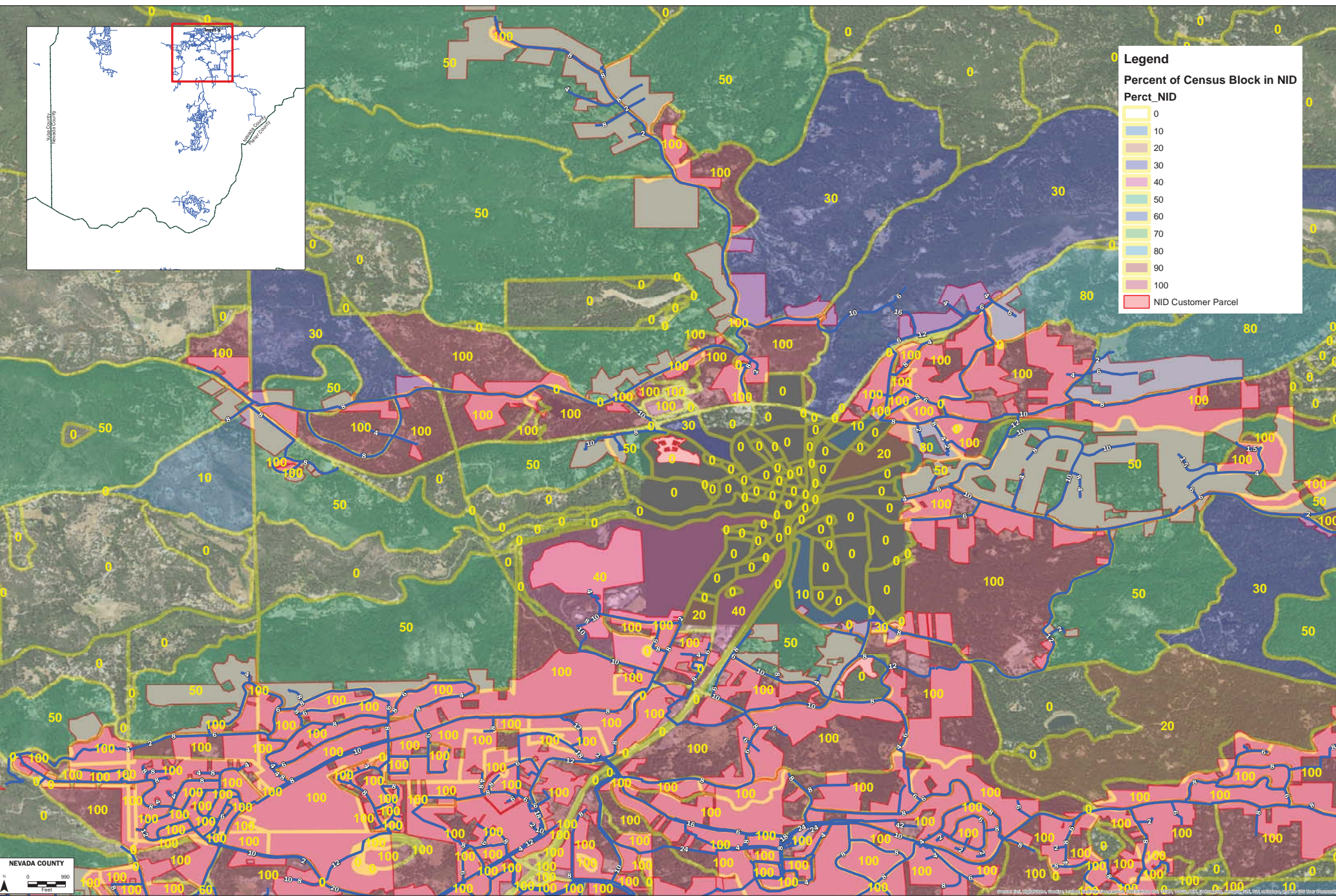
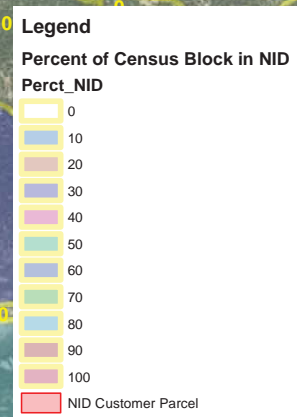
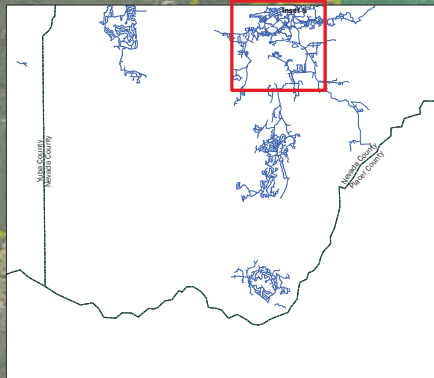






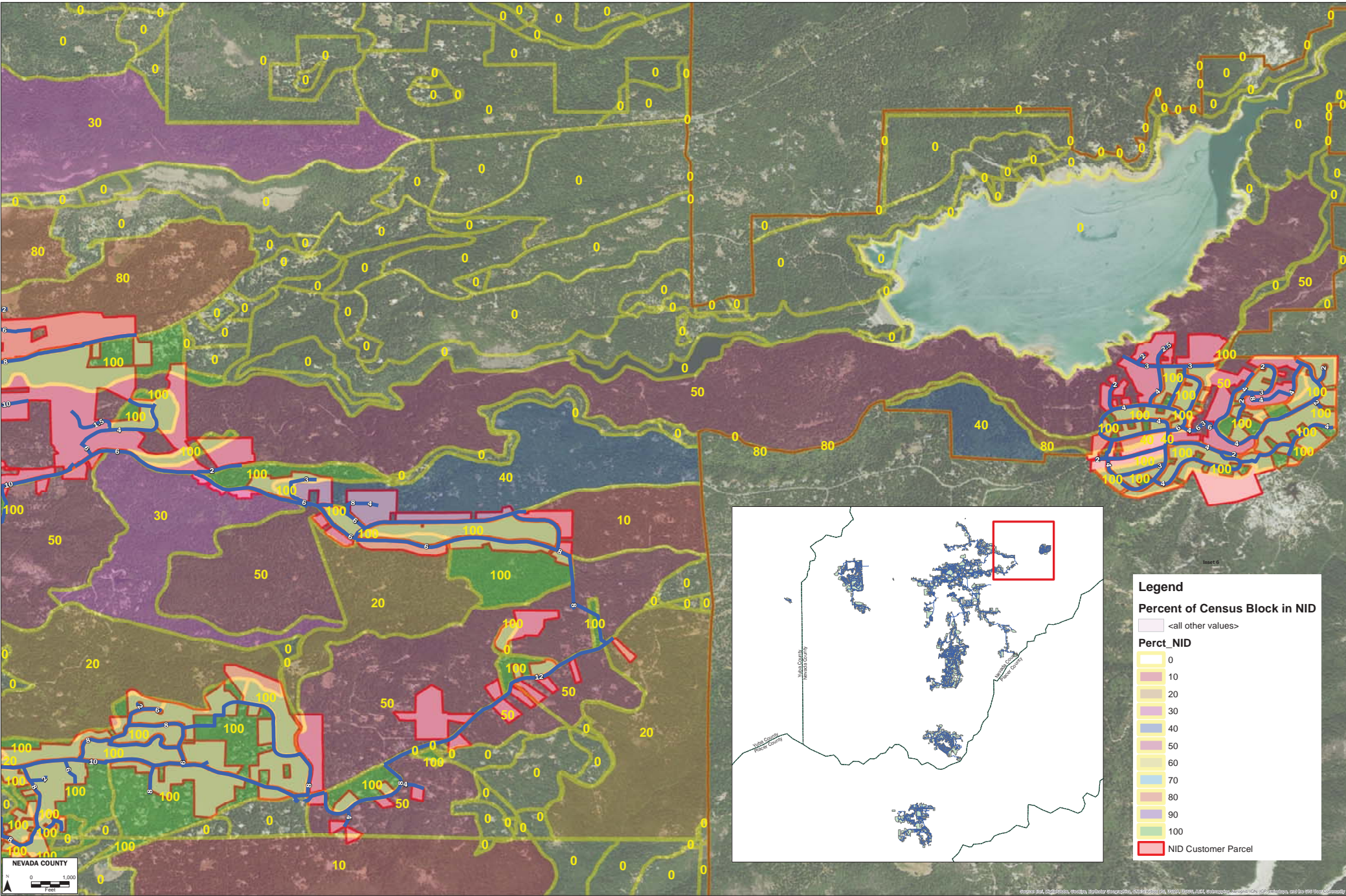




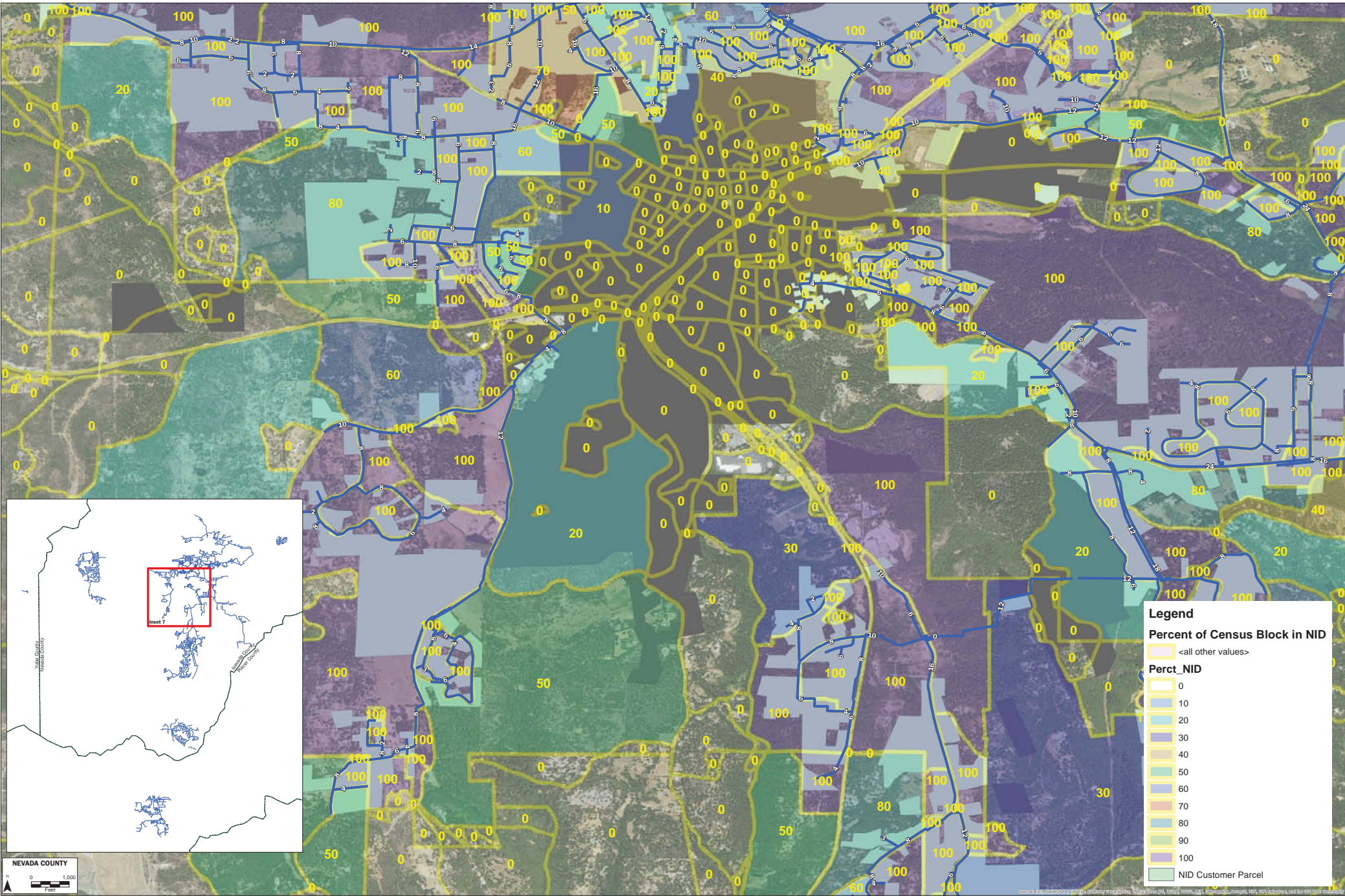


NEVADA COUNTY  
0 990  
Feet

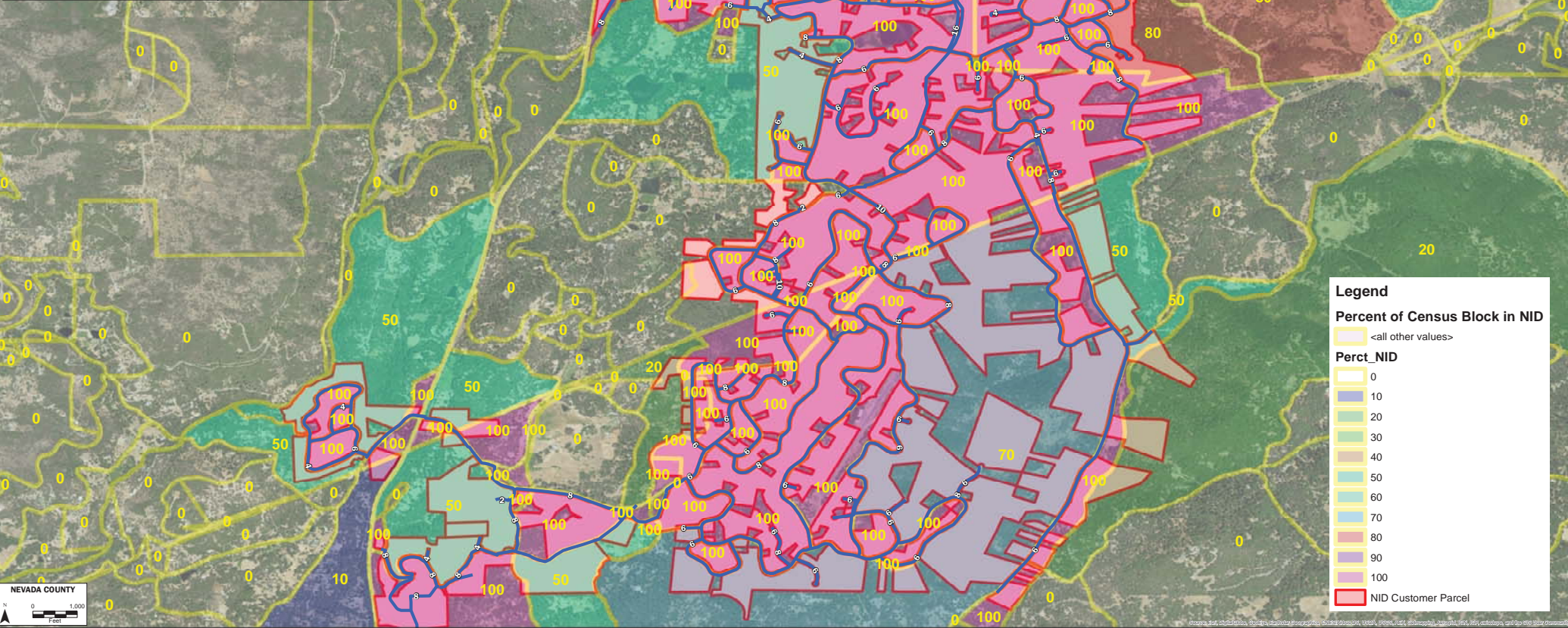
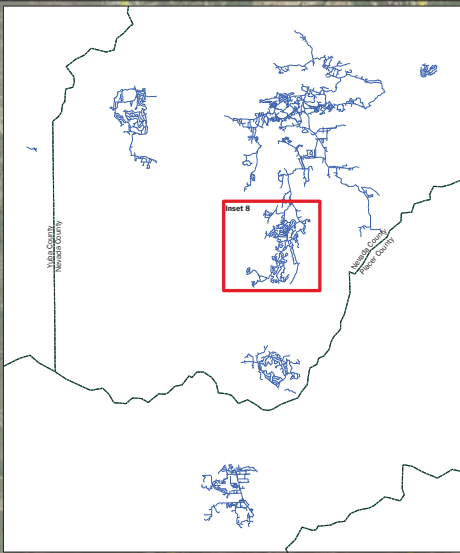












NEVADA COUNTY  
0 1,000  
Feet

**Legend**

**Percent of Census Block in NID**

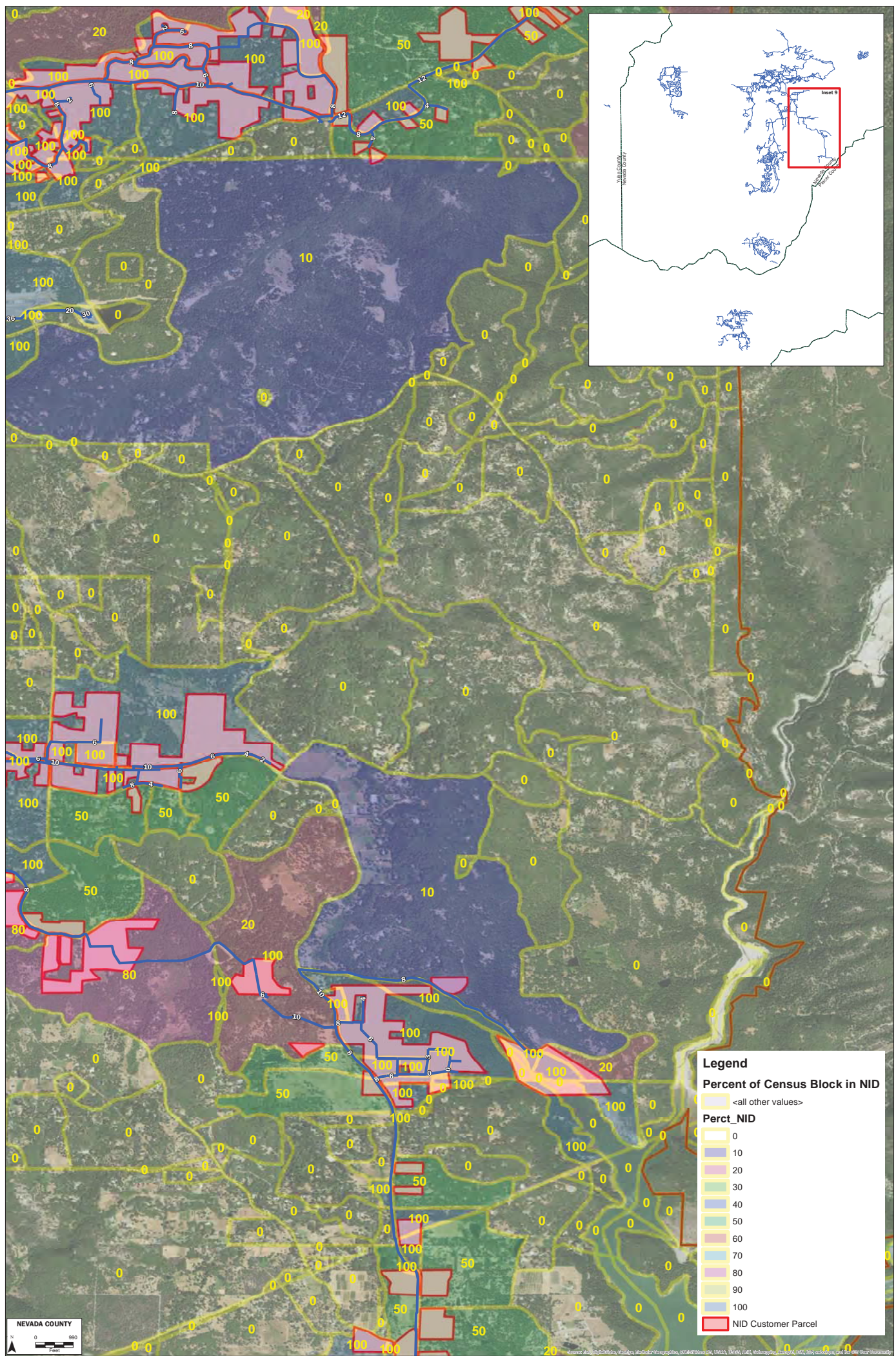
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**Perct\_NID**

0
10
20
30
40
50
60
70
80
90
100

NID Customer Parcel







STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000103	1003	060570001	N	166	401	10	40
06	057	000300	2019	060570003	N	11	29	0	-
06	057	000104	1008	060570001	N	9	18	100	18
06	057	000702	2028	060570007	N	12	21	0	-
06	057	000702	2039	060570007	N	11	22	0	-
06	057	000104	3000	060570001	N	67	167	100	167
06	057	000103	5004	060570001	N	116	289	100	289
06	057	000102	2008	060570001	N	64	165	100	165
06	057	000102	2004	060570001	N	115	223	100	223
06	057	000104	2034	060570001	N	74	126	70	88
06	057	000102	3024	060570001	N	11	24	100	24
06	057	000102	2019	060570001	N	33	70	80	56
06	057	000102	2018	060570001	N	13	34	100	34
06	057	000802	4018	060570008	N	0	0	0	-
06	057	000802	4075	060570008	N	0	0	0	-
06	057	000402	3024	060570004	N	0	0	0	-
06	057	000300	1000	060570003	N	0	0	0	-
06	057	000300	1039	060570003	N	0	0	0	-
06	057	000300	1051	060570003	N	27	71	0	-
06	057	000600	1003	060570006	N	0	0	100	-
06	057	000402	4033	060570004	N	90	209	10	21
06	057	000402	4043	060570004	N	0	0	0	-
06	057	000702	1085	060570007	N	1	2	0	-
06	057	000701	4009	060570007	N	2	9	0	-
06	057	000701	1045	060570007	N	2	4	0	-
06	057	000701	5018	060570007	N	4	10	0	-
06	057	000701	5042	060570007	N	2	4	0	-
06	057	000701	5021	060570007	N	38	72	0	-
06	057	000701	6000	060570007	N	0	0	0	-
06	057	000702	1008	060570007	N	9	22	100	22
06	057	000701	6074	060570007	N	1	2	100	2
06	057	000102	2026	060570001	N	0	0	0	-
06	057	000102	2023	060570001	N	14	29	100	29
06	057	000104	3007	060570001	N	4	5	0	-
06	057	000102	1009	060570001	N	63	138	100	138
06	057	000102	3018	060570001	N	7	17	100	17
06	057	000200	2044	060570002	N	0	0	0	-
06	057	000802	4053	060570008	N	0	0	0	-
06	057	000701	3031	060570007	N	9	17	100	17
06	057	000600	2038	060570006	N	0	0	100	-
06	057	000702	2014	060570007	N	4	5	100	5
06	057	000600	3016	060570006	N	13	29	100	29
06	057	000701	5037	060570007	N	29	61	80	49
06	057	000802	4081	060570008	N	3	5	100	5
06	057	000300	2028	060570003	N	0	0	0	-
06	057	000300	2013	060570003	N	8	20	100	20
06	057	000200	2053	060570002	N	2	6	0	-
06	057	000802	4035	060570008	N	3	6	0	-
06	057	000600	5035	060570006	N	0	0	100	-
06	057	000600	5036	060570006	N	0	0	100	-
06	057	000600	3026	060570006	N	0	0	100	-
06	057	000702	2030	060570007	N	11	32	0	-
06	057	000702	2049	060570007	N	0	0	0	-
06	057	000702	1009	060570007	N	0	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000600	1038	060570006	N	0	0	0	-
06	057	000701	5012	060570007	N	3	11	0	-
06	057	000701	5009	060570007	N	0	0	0	-
06	057	000701	1057	060570007	N	0	0	0	-
06	057	000701	6076	060570007	N	0	0	0	-
06	057	000701	6029	060570007	N	0	0	0	-
06	057	000701	6080	060570007	N	0	0	0	-
06	057	000702	1047	060570007	N	0	0	0	-
06	057	000701	3006	060570007	N	20	63	100	63
06	057	000701	4028	060570007	N	24	50	0	-
06	057	000600	2012	060570006	N	0	0	100	-
06	057	000501	3026	060570005	N	35	105	100	105
06	057	000502	3012	060570005	N	60	116	0	-
06	057	000501	4003	060570005	N	390	678	40	271
06	057	000600	5013	060570006	N	8	9	0	-
06	057	000600	1010	060570006	N	25	44	100	44
06	057	000701	5050	060570007	N	8	23	0	-
06	057	000802	3008	060570008	N	28	53	20	11
06	057	000402	2052	060570004	N	0	0	0	-
06	057	000402	2007	060570004	N	3	7	0	-
06	057	000702	1058	060570007	N	0	0	0	-
06	057	000701	6100	060570007	N	5	10	100	10
06	057	000701	4022	060570007	N	34	97	100	97
06	057	000104	1021	060570001	N	17	21	100	21
06	057	000600	4010	060570006	N	20	43	0	-
06	057	000502	3017	060570005	N	0	0	0	-
06	057	000200	2009	060570002	N	34	76	0	-
06	057	000300	2045	060570003	N	2	5	0	-
06	057	000200	2012	060570002	N	1	5	0	-
06	057	000701	6089	060570007	N	0	0	0	-
06	057	000701	6095	060570007	N	1	1	100	1
06	057	000702	1048	060570007	N	0	0	0	-
06	057	000702	1057	060570007	N	0	0	0	-
06	057	000702	1090	060570007	N	9	14	0	-
06	057	000102	3023	060570001	N	26	61	100	61
06	057	000102	2013	060570001	N	0	0	100	-
06	057	000104	1023	060570001	N	1	4	100	4
06	057	000104	1009	060570001	N	7	15	100	15
06	057	000501	1004	060570005	N	40	89	100	89
06	057	000501	1005	060570005	N	15	34	100	34
06	057	000501	4008	060570005	N	13	29	100	29
06	057	000900	1123	060570009	N	0	0	0	-
06	057	000801	2022	060570008	N	12	24	0	-
06	057	000900	2120	060570009	N	46	103	0	-
06	057	000402	4009	060570004	N	38	93	80	74
06	057	000401	3013	060570004	N	138	289	100	289
06	057	000401	3004	060570004	N	16	31	100	31
06	057	000200	1080	060570002	N	9	18	0	-
06	057	000105	3021	060570001	N	70	162	0	-
06	057	000200	1067	060570002	N	1	2	0	-
06	057	000200	2040	060570002	N	6	13	0	-
06	057	000105	3027	060570001	N	81	165	0	-
06	057	000701	4017	060570007	N	4	17	0	-
06	057	000702	2048	060570007	N	7	17	0	-



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000701	4013	060570007	N	0	0	0	-
06	057	000402	3001	060570004	N	41	88	0	-
06	057	000701	1013	060570007	N	2	4	0	-
06	057	000801	1040	060570008	N	7	17	100	17
06	057	000802	1006	060570008	N	0	0	100	-
06	057	000801	2041	060570008	N	2	8	0	-
06	057	000801	2093	060570008	N	0	0	0	-
06	057	000801	3109	060570008	N	0	0	0	-
06	057	000801	3032	060570008	N	0	0	0	-
06	057	000801	3086	060570008	N	2	2	0	-
06	057	000801	3058	060570008	N	37	67	100	67
06	057	000801	3119	060570008	N	18	45	100	45
06	057	000801	3046	060570008	N	221	433	50	217
06	057	000801	3047	060570008	N	2	2	100	2
06	057	000402	4004	060570004	N	2	2	0	-
06	057	000200	1047	060570002	N	0	0	0	-
06	057	000701	2151	060570007	N	23	55	100	55
06	057	000701	2152	060570007	N	64	138	50	69
06	057	000701	2132	060570007	N	6	20	0	-
06	057	000801	3067	060570008	N	0	0	0	-
06	057	000801	3072	060570008	N	0	0	0	-
06	057	000801	1002	060570008	N	146	305	50	153
06	057	000801	1022	060570008	N	1	4	100	4
06	057	000802	1029	060570008	N	7	12	0	-
06	057	000802	4009	060570008	N	0	0	0	-
06	057	000802	1047	060570008	N	4	9	0	-
06	057	000802	1051	060570008	N	0	0	0	-
06	057	000802	2021	060570008	N	31	45	0	-
06	057	000802	2022	060570008	N	5	9	0	-
06	057	000802	2020	060570008	N	13	19	0	-
06	057	000802	2009	060570008	N	6	7	0	-
06	057	000802	4004	060570008	N	0	0	0	-
06	057	000802	4021	060570008	N	5	11	0	-
06	057	000102	1014	060570001	N	13	24	100	24
06	057	000102	4000	060570001	N	6	22	50	11
06	057	000104	3014	060570001	N	1	1	100	1
06	057	000105	1021	060570001	N	2	9	100	9
06	057	000105	2004	060570001	N	44	101	0	-
06	057	000105	2006	060570001	N	47	119	0	-
06	057	000105	2002	060570001	N	24	50	0	-
06	057	000105	2007	060570001	N	3	5	0	-
06	057	000802	4022	060570008	N	1	3	0	-
06	057	000802	2044	060570008	N	5	5	0	-
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06	057	000900	2125	060570009	N	6	15	0	-
06	057	000900	2124	060570009	N	2	8	0	-
06	057	000802	4001	060570008	N	0	0	0	-
06	057	000801	2036	060570008	N	0	0	0	-
06	057	000801	1006	060570008	N	0	0	0	-
06	057	000105	1031	060570001	N	27	57	0	-
06	057	000105	1032	060570001	N	8	18	0	-
06	057	000103	6002	060570001	N	0	0	0	-
06	057	000200	1013	060570002	N	9	25	0	-
06	057	000105	2017	060570001	N	26	64	30	19

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000103	7001	060570001	N	90	162	100	162
06	057	000103	4001	060570001	N	0	0	100	-
06	057	000103	4003	060570001	N	86	178	100	178
06	057	000802	2037	060570008	N	11	15	0	-
06	057	000802	2016	060570008	N	5	14	0	-
06	057	000801	1016	060570008	N	0	0	0	-
06	057	000802	4015	060570008	N	7	17	0	-
06	057	000801	1024	060570008	N	1	2	0	-
06	057	000300	1027	060570003	N	75	165	20	33
06	057	000402	2042	060570004	N	22	61	0	-
06	057	000102	3028	060570001	N	0	0	0	-
06	057	000103	3017	060570001	N	6	15	0	-
06	057	000105	1005	060570001	N	20	46	20	9
06	057	000103	1010	060570001	N	2	7	100	7
06	057	000103	7010	060570001	N	127	232	100	232
06	057	000105	3006	060570001	N	13	25	0	-
06	057	000401	3002	060570004	N	42	97	100	97
06	057	000401	3006	060570004	N	15	27	100	27
06	057	000401	3021	060570004	N	23	45	100	45
06	057	000402	3005	060570004	N	38	91	0	-
06	057	000402	3010	060570004	N	6	19	0	-
06	057	000300	1042	060570003	N	0	0	0	-
06	057	000300	1041	060570003	N	2	6	0	-
06	057	000300	1036	060570003	N	1	2	0	-
06	057	000103	3014	060570001	N	19	39	0	-
06	057	000801	3035	060570008	N	0	0	0	-
06	057	000600	4009	060570006	N	3	4	100	4
06	057	000402	4034	060570004	N	0	0	0	-
06	057	000402	1000	060570004	N	6	19	30	6
06	057	000402	1001	060570004	N	62	125	100	125
06	057	000402	1009	060570004	N	16	33	0	-
06	057	000402	1002	060570004	N	15	44	100	44
06	057	000402	1014	060570004	N	31	83	100	83
06	057	000402	1012	060570004	N	11	35	100	35
06	057	000402	2023	060570004	N	7	12	0	-
06	057	000402	1013	060570004	N	11	25	100	25
06	057	000702	1005	060570007	N	2	3	100	3
06	057	000701	6107	060570007	N	2	3	100	3
06	057	000701	6106	060570007	N	33	50	50	25
06	057	000103	2014	060570001	N	40	102	0	-
06	057	000200	1035	060570002	N	0	0	0	-
06	057	000402	2009	060570004	N	10	24	0	-
06	057	000200	1021	060570002	N	4	3	0	-
06	057	000200	1028	060570002	N	0	0	0	-
06	057	000600	5003	060570006	N	16	43	0	-
06	057	000801	2085	060570008	N	1	0	0	-
06	057	000801	3031	060570008	N	1	2	0	-
06	057	000801	3038	060570008	N	0	0	0	-
06	057	000103	5000	060570001	N	139	336	100	336
06	057	000402	2004	060570004	N	6	15	0	-
06	057	000501	2001	060570005	N	6	13	100	13
06	057	000802	3013	060570008	N	0	0	0	-
06	057	000802	3019	060570008	N	28	58	100	58
06	057	000600	1022	060570006	N	0	0	100	-



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000501	3024	060570005	N	3	5	100	5
06	057	000701	4011	060570007	N	8	9	0	-
06	057	000402	4026	060570004	N	12	28	0	-
06	057	000300	2009	060570003	N	6	19	0	-
06	057	000402	3008	060570004	N	5	8	0	-
06	057	000801	3033	060570008	N	0	0	0	-
06	057	000402	1006	060570004	N	23	46	0	-
06	057	000501	3019	060570005	N	14	23	100	23
06	057	000502	4008	060570005	N	1	4	0	-
06	057	000501	1012	060570005	N	11	28	100	28
06	057	000600	1020	060570006	N	0	0	0	-
06	057	000600	2000	060570006	N	0	0	0	-
06	057	000701	4050	060570007	N	0	0	100	-
06	057	000502	2005	060570005	N	12	32	0	-
06	057	000501	5031	060570005	N	1	2	0	-
06	057	000501	5032	060570005	N	9	25	0	-
06	057	000502	1002	060570005	N	30	56	0	-
06	057	000501	5026	060570005	N	1	0	0	-
06	057	000502	1006	060570005	N	8	14	0	-
06	057	000105	1025	060570001	N	0	0	0	-
06	057	000802	4029	060570008	N	20	47	100	47
06	057	000502	1004	060570005	N	24	42	0	-
06	057	000701	4047	060570007	N	0	0	100	-
06	057	000502	1003	060570005	N	24	74	0	-
06	057	000300	1006	060570003	N	0	0	0	-
06	057	000300	1025	060570003	N	0	0	0	-
06	057	000502	4018	060570005	N	1	2	0	-
06	057	000300	1007	060570003	N	0	0	0	-
06	057	000600	5015	060570006	N	18	27	0	-
06	057	000600	4018	060570006	N	0	0	0	-
06	057	000600	4016	060570006	N	10	13	0	-
06	057	000502	3041	060570005	N	0	0	0	-
06	057	000502	3029	060570005	N	0	0	0	-
06	057	000702	2003	060570007	N	16	35	100	35
06	057	000600	3015	060570006	N	25	43	40	17
06	057	000600	2023	060570006	N	0	0	100	-
06	057	000600	2020	060570006	N	0	0	0	-
06	057	000701	1011	060570007	N	12	26	50	13
06	057	000701	4000	060570007	N	0	0	0	-
06	057	000701	3029	060570007	N	2	3	0	-
06	057	000600	1015	060570006	N	0	0	100	-
06	057	000401	3019	060570004	N	0	0	100	-
06	057	000401	3008	060570004	N	51	126	100	126
06	057	000104	1020	060570001	N	0	0	100	-
06	057	000501	2031	060570005	N	0	0	0	-
06	057	000501	2025	060570005	N	0	0	0	-
06	057	000501	2028	060570005	N	0	0	100	-
06	057	000300	1040	060570003	N	0	0	0	-
06	057	000104	1011	060570001	N	0	0	100	-
06	057	000600	5017	060570006	N	13	26	0	-
06	057	000701	4018	060570007	N	7	16	0	-
06	057	000501	2033	060570005	N	0	0	100	-
06	057	000402	3014	060570004	N	0	0	0	-
06	057	000103	6009	060570001	N	10	21	100	21

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000702	2055	060570007	N	1	2	100	2
06	057	000501	2041	060570005	N	59	53	100	53
06	057	000600	2016	060570006	N	0	0	0	-
06	057	000600	1029	060570006	N	317	863	100	863
06	057	000502	3014	060570005	N	51	124	0	-
06	057	000401	1016	060570004	N	2	0	0	-
06	057	000802	3015	060570008	N	0	0	0	-
06	057	000801	3027	060570008	N	8	12	0	-
06	057	000702	1076	060570007	N	21	46	100	46
06	057	000105	3032	060570001	N	0	0	0	-
06	057	000801	2104	060570008	N	0	0	0	-
06	057	000801	2040	060570008	N	0	0	0	-
06	057	000802	1009	060570008	N	0	183	100	183
06	057	000802	2052	060570008	N	0	0	0	-
06	057	000701	6082	060570007	N	0	0	0	-
06	057	000105	1004	060570001	N	11	22	50	11
06	057	000300	1001	060570003	N	5	8	0	-
06	057	000402	3057	060570004	N	10	12	100	12
06	057	000801	3087	060570008	N	1	2	0	-
06	057	000802	3020	060570008	N	16	32	100	32
06	057	000501	3010	060570005	N	13	28	0	-
06	057	000103	6001	060570001	N	0	0	0	-
06	057	000200	1009	060570002	N	0	0	0	-
06	057	000802	3014	060570008	N	0	0	0	-
06	057	000105	1014	060570001	N	0	0	100	-
06	057	000300	1061	060570003	N	12	44	0	-
06	057	000802	4048	060570008	N	0	0	0	-
06	057	000104	2031	060570001	N	62	94	100	94
06	057	000702	2022	060570007	N	0	0	0	-
06	057	000701	5030	060570007	N	6	10	0	-
06	057	000701	3033	060570007	N	5	11	0	-
06	057	000801	3065	060570008	N	22	41	0	-
06	057	000200	1063	060570002	N	1	2	0	-
06	057	000502	4020	060570005	N	0	0	0	-
06	057	000200	2042	060570002	N	0	0	0	-
06	057	000105	3031	060570001	N	19	44	0	-
06	057	000402	2034	060570004	N	19	26	0	-
06	057	000402	3021	060570004	N	28	62	0	-
06	057	000701	4026	060570007	N	0	0	100	-
06	057	000702	2054	060570007	N	1	1	0	-
06	057	000702	1026	060570007	N	3	8	0	-
06	057	000702	1027	060570007	N	2	0	0	-
06	057	000300	2027	060570003	N	42	97	0	-
06	057	000104	2028	060570001	N	1	1	100	1
06	057	000104	2021	060570001	N	26	64	100	64
06	057	000102	2010	060570001	N	14	38	100	38
06	057	000104	3006	060570001	N	26	53	0	-
06	057	000402	1016	060570004	N	32	80	0	-
06	057	000802	4011	060570008	N	4	5	0	-
06	057	000300	1008	060570003	N	0	0	0	-
06	057	000300	1012	060570003	N	1	2	0	-
06	057	000402	4016	060570004	N	0	0	0	-
06	057	000401	4000	060570004	N	206	426	100	426
06	057	000401	1015	060570004	N	1	5	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000402	4039	060570004	N	3	6	0	-
06	057	000402	4052	060570004	N	0	0	0	-
06	057	000701	1037	060570007	N	5	17	0	-
06	057	000701	1059	060570007	N	32	75	0	-
06	057	000701	5010	060570007	N	43	92	0	-
06	057	000701	5036	060570007	N	3	9	0	-
06	057	000701	5022	060570007	N	54	114	0	-
06	057	000701	5057	060570007	N	17	25	100	25
06	057	000702	1006	060570007	N	2	4	100	4
06	057	000702	1012	060570007	N	24	54	0	-
06	057	000702	1015	060570007	N	23	59	80	47
06	057	000200	2001	060570002	N	149	347	0	-
06	057	000102	2029	060570001	N	35	77	50	39
06	057	000200	1038	060570002	N	13	25	0	-
06	057	000102	1011	060570001	N	9	20	100	20
06	057	000802	4052	060570008	N	4	14	0	-
06	057	000600	3014	060570006	N	1	0	100	-
06	057	000501	3015	060570005	N	125	261	70	183
06	057	000502	3053	060570005	N	25	56	100	56
06	057	000501	2005	060570005	N	32	72	100	72
06	057	000701	3028	060570007	N	11	23	100	23
06	057	000701	1021	060570007	N	0	0	0	-
06	057	000600	3033	060570006	N	0	0	100	-
06	057	000702	2009	060570007	N	13	23	100	23
06	057	000600	5029	060570006	N	0	0	100	-
06	057	000701	5029	060570007	N	2	5	0	-
06	057	000401	2009	060570004	N	0	0	100	-
06	057	000701	5026	060570007	N	0	0	0	-
06	057	000701	1026	060570007	N	0	0	0	-
06	057	000701	1029	060570007	N	6	15	0	-
06	057	000701	1031	060570007	N	4	7	0	-
06	057	000701	6047	060570007	N	1	3	100	3
06	057	000702	1022	060570007	N	62	124	0	-
06	057	000701	6031	060570007	N	8	15	0	-
06	057	000701	6086	060570007	N	47	100	0	-
06	057	000702	1065	060570007	N	4	12	0	-
06	057	000702	1103	060570007	N	7	15	0	-
06	057	000702	1082	060570007	N	31	68	0	-
06	057	000701	6101	060570007	N	0	0	0	-
06	057	000701	2223	060570007	N	25	47	100	47
06	057	000600	1012	060570006	N	0	0	0	-
06	057	000600	2008	060570006	N	0	0	100	-
06	057	000501	2015	060570005	N	22	52	100	52
06	057	000701	5055	060570007	N	21	45	80	36
06	057	000702	2056	060570007	N	0	0	100	-
06	057	000104	3005	060570001	N	19	45	0	-
06	057	000102	3011	060570001	N	2	4	100	4
06	057	000600	4004	060570006	N	9	21	0	-
06	057	000402	2058	060570004	N	0	0	0	-
06	057	000200	1052	060570002	N	2	0	0	-
06	057	000200	1050	060570002	N	5	10	0	-
06	057	000200	1006	060570002	N	29	65	0	-
06	057	000200	1041	060570002	N	0	0	0	-
06	057	000200	1000	060570002	N	116	281	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000200	1001	060570002	N	0	0	0	-
06	057	000300	1065	060570003	N	22	42	0	-
06	057	000402	3049	060570004	N	57	135	0	-
06	057	000200	1039	060570002	N	4	11	0	-
06	057	000702	1100	060570007	N	1	2	0	-
06	057	000702	1062	060570007	N	5	8	0	-
06	057	000701	3001	060570007	N	45	101	100	101
06	057	000701	4001	060570007	N	1	6	100	6
06	057	000200	1078	060570002	N	4	13	0	-
06	057	000104	1026	060570001	N	4	4	100	4
06	057	000103	7008	060570001	N	0	0	0	-
06	057	000900	2132	060570009	N	6	12	0	-
06	057	000104	2007	060570001	N	1	2	100	2
06	057	000200	1011	060570002	N	2	4	0	-
06	057	000200	2014	060570002	N	1	3	0	-
06	057	000300	2041	060570003	N	0	0	0	-
06	057	000200	2045	060570002	N	0	0	0	-
06	057	000300	2063	060570003	N	2	3	100	3
06	057	000300	2064	060570003	N	1	4	100	4
06	057	000300	2031	060570003	N	0	0	0	-
06	057	000200	2056	060570002	N	2	5	0	-
06	057	000701	6069	060570007	N	0	0	0	-
06	057	000702	1102	060570007	N	1	5	0	-
06	057	000102	2020	060570001	N	4	8	100	8
06	057	000102	1001	060570001	N	20	46	100	46
06	057	000104	1024	060570001	N	1	2	100	2
06	057	000300	2026	060570003	N	4	9	0	-
06	057	000801	2049	060570008	N	6	13	0	-
06	057	000402	4002	060570004	N	86	166	0	-
06	057	000401	1006	060570004	N	133	318	40	127
06	057	000900	2105	060570009	N	0	0	0	-
06	057	000200	2055	060570002	N	3	4	0	-
06	057	000200	1049	060570002	N	1	0	0	-
06	057	000105	3013	060570001	N	19	42	0	-
06	057	000200	2025	060570002	N	61	134	0	-
06	057	000200	2030	060570002	N	8	20	0	-
06	057	000200	1065	060570002	N	4	10	0	-
06	057	000802	4058	060570008	N	44	82	100	82
06	057	000802	4054	060570008	N	0	0	100	-
06	057	000701	5015	060570007	N	0	0	0	-
06	057	000701	5033	060570007	N	1	0	0	-
06	057	000802	1013	060570008	N	1	2	100	2
06	057	000801	2079	060570008	N	1	2	0	-
06	057	000701	2078	060570007	N	48	97	50	49
06	057	000801	3024	060570008	N	0	0	0	-
06	057	000801	3112	060570008	N	3	6	0	-
06	057	000801	3102	060570008	N	0	0	0	-
06	057	000801	3054	060570008	N	15	24	80	19
06	057	000801	3114	060570008	N	12	24	100	24
06	057	000701	2128	060570007	N	9	11	100	11
06	057	000801	2029	060570008	N	32	63	0	-
06	057	000200	2054	060570002	N	1	1	0	-
06	057	000701	1007	060570007	N	29	68	20	14
06	057	000801	2078	060570008	N	0	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000801	2108	060570008	N	2	2	0	-
06	057	000701	2076	060570007	N	0	0	0	-
06	057	000802	1022	060570008	N	0	0	0	-
06	057	000802	1007	060570008	N	0	0	0	-
06	057	000802	1034	060570008	N	9	15	0	-
06	057	000802	1045	060570008	N	8	14	0	-
06	057	000802	4003	060570008	N	12	27	0	-
06	057	000802	1041	060570008	N	0	0	0	-
06	057	000802	2014	060570008	N	6	8	0	-
06	057	000802	2013	060570008	N	5	7	0	-
06	057	000802	4019	060570008	N	53	122	0	-
06	057	000802	2010	060570008	N	0	0	0	-
06	057	000802	2006	060570008	N	1	2	0	-
06	057	000102	3016	060570001	N	16	36	100	36
06	057	000102	3025	060570001	N	24	53	100	53
06	057	000102	1020	060570001	N	31	69	100	69
06	057	000105	1011	060570001	N	7	15	100	15
06	057	000104	3013	060570001	N	42	105	50	53
06	057	000103	2002	060570001	N	44	104	0	-
06	057	000105	1022	060570001	N	195	410	100	410
06	057	000103	2013	060570001	N	117	227	0	-
06	057	000105	3024	060570001	N	0	0	0	-
06	057	000802	2035	060570008	N	9	20	0	-
06	057	000802	2036	060570008	N	13	28	100	28
06	057	000802	4007	060570008	N	31	68	10	7
06	057	000801	1005	060570008	N	0	0	0	-
06	057	000103	6004	060570001	N	42	77	10	8
06	057	000105	2012	060570001	N	5	13	0	-
06	057	000103	7000	060570001	N	28	46	100	46
06	057	000103	3001	060570001	N	163	417	10	42
06	057	000103	5005	060570001	N	75	164	100	164
06	057	000103	3000	060570001	N	23	56	50	28
06	057	000103	7012	060570001	N	77	166	100	166
06	057	000103	3005	060570001	N	15	33	0	-
06	057	000103	3013	060570001	N	22	66	0	-
06	057	000802	1012	060570008	N	0	0	0	-
06	057	000402	4025	060570004	N	10	23	0	-
06	057	000102	4020	060570001	N	2	3	100	3
06	057	000102	3021	060570001	N	16	29	0	-
06	057	000102	3022	060570001	N	15	38	0	-
06	057	000200	1044	060570002	N	0	0	0	-
06	057	000402	4053	060570004	N	1	2	0	-
06	057	000402	2066	060570004	N	0	0	0	-
06	057	000402	2063	060570004	N	0	0	0	-
06	057	000402	2044	060570004	N	12	23	0	-
06	057	000402	4054	060570004	N	0	0	0	-
06	057	000402	4028	060570004	N	10	27	0	-
06	057	000401	3010	060570004	N	0	0	0	-
06	057	000401	3020	060570004	N	51	107	100	107
06	057	000401	2007	060570004	N	58	112	100	112
06	057	000401	2003	060570004	N	0	0	0	-
06	057	000402	3043	060570004	N	20	45	0	-
06	057	000103	7004	060570001	N	0	0	100	-
06	057	000402	2000	060570004	N	11	28	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000103	3015	060570001	N	0	0	0	-
06	057	000701	1048	060570007	N	1	3	0	-
06	057	000702	2005	060570007	N	30	84	100	84
06	057	000104	2020	060570001	N	0	0	100	-
06	057	000104	1018	060570001	N	28	64	100	64
06	057	000300	1054	060570003	N	2	7	0	-
06	057	000401	2011	060570004	N	0	0	0	-
06	057	000300	1011	060570003	N	0	0	0	-
06	057	000402	1010	060570004	N	344	889	80	711
06	057	000401	4002	060570004	N	150	256	100	256
06	057	000900	2031	060570009	N	1	3	0	-
06	057	000801	2037	060570008	N	4	6	0	-
06	057	000802	3011	060570008	N	8	15	100	15
06	057	000600	3040	060570006	N	40	91	80	73
06	057	000300	2000	060570003	N	18	43	0	-
06	057	000200	1031	060570002	N	0	0	0	-
06	057	000200	1043	060570002	N	0	0	0	-
06	057	000401	1009	060570004	N	31	60	0	-
06	057	000105	3009	060570001	N	2	3	0	-
06	057	000104	1017	060570001	N	1	0	0	-
06	057	000701	4048	060570007	N	7	12	0	-
06	057	000701	5002	060570007	N	2	4	0	-
06	057	000402	4050	060570004	N	1	2	0	-
06	057	000401	3024	060570004	N	2	4	100	4
06	057	000300	1017	060570003	N	0	0	0	-
06	057	000802	4039	060570008	N	14	46	50	23
06	057	000501	3009	060570005	N	23	56	10	6
06	057	000802	4051	060570008	N	25	50	100	50
06	057	000701	5061	060570007	N	4	6	100	6
06	057	000701	4015	060570007	N	26	64	0	-
06	057	000104	1030	060570001	N	6	5	100	5
06	057	000501	5011	060570005	N	5	12	0	-
06	057	000801	1014	060570008	N	20	43	100	43
06	057	000801	2061	060570008	N	0	0	0	-
06	057	000501	1008	060570005	N	4	13	100	13
06	057	000600	2002	060570006	N	0	0	0	-
06	057	000600	2025	060570006	N	0	0	100	-
06	057	000501	3016	060570005	N	13	38	100	38
06	057	000501	5008	060570005	N	14	38	0	-
06	057	000502	2013	060570005	N	20	36	0	-
06	057	000501	1017	060570005	N	2	2	0	-
06	057	000501	5015	060570005	N	14	16	0	-
06	057	000501	5017	060570005	N	9	10	0	-
06	057	000104	1007	060570001	N	7	21	100	21
06	057	000502	3005	060570005	N	15	44	100	44
06	057	000600	3027	060570006	N	11	23	100	23
06	057	000104	2004	060570001	N	48	112	50	56
06	057	000104	3017	060570001	N	21	45	50	23
06	057	000801	3090	060570008	N	8	14	100	14
06	057	000501	5025	060570005	N	1	0	0	-
06	057	000600	2011	060570006	N	6	12	0	-
06	057	000502	1012	060570005	N	25	42	0	-
06	057	000502	1009	060570005	N	13	36	0	-
06	057	000502	4019	060570005	N	4	9	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000501	3003	060570005	N	14	27	100	27
06	057	000600	4015	060570006	N	48	98	0	-
06	057	000802	4062	060570008	N	0	0	0	-
06	057	000600	2003	060570006	N	0	0	100	-
06	057	000600	1032	060570006	N	37	37	100	37
06	057	000600	2028	060570006	N	0	0	100	-
06	057	000300	1032	060570003	N	0	0	0	-
06	057	000502	3044	060570005	N	4	2	0	-
06	057	000701	5048	060570007	N	7	19	0	-
06	057	000401	2012	060570004	N	1	2	100	2
06	057	000701	2225	060570007	N	38	88	100	88
06	057	000701	3025	060570007	N	10	25	0	-
06	057	000701	1028	060570007	N	0	0	0	-
06	057	000701	4021	060570007	N	7	15	100	15
06	057	000104	2014	060570001	N	1	2	100	2
06	057	000701	3005	060570007	N	13	33	100	33
06	057	000502	3028	060570005	N	0	0	0	-
06	057	000801	2053	060570008	N	1	2	0	-
06	057	000600	2036	060570006	N	97	99	100	99
06	057	000802	2038	060570008	N	0	0	0	-
06	057	000501	5004	060570005	N	35	87	0	-
06	057	000501	2038	060570005	N	7	9	100	9
06	057	000401	3017	060570004	N	1	2	0	-
06	057	000502	3042	060570005	N	0	0	0	-
06	057	000105	3028	060570001	N	4	13	0	-
06	057	000200	1005	060570002	N	4	8	0	-
06	057	000801	2034	060570008	N	11	22	0	-
06	057	000701	4055	060570007	N	0	0	0	-
06	057	000600	4017	060570006	N	0	0	0	-
06	057	000104	2002	060570001	N	7	21	100	21
06	057	000501	3014	060570005	N	11	28	100	28
06	057	000402	2010	060570004	N	0	0	0	-
06	057	000200	2002	060570002	N	0	0	0	-
06	057	000600	1009	060570006	N	0	0	100	-
06	057	000702	2010	060570007	N	0	0	0	-
06	057	000701	5040	060570007	N	37	70	100	70
06	057	000702	2045	060570007	N	31	62	100	62
06	057	000502	3001	060570005	N	44	100	0	-
06	057	000402	2053	060570004	N	0	0	0	-
06	057	000402	3035	060570004	N	4	6	0	-
06	057	000801	2044	060570008	N	1	1	0	-
06	057	000801	3068	060570008	N	0	0	0	-
06	057	000103	6003	060570001	N	11	34	100	34
06	057	000701	2079	060570007	N	32	52	100	52
06	057	000300	2025	060570003	N	9	23	0	-
06	057	000300	2052	060570003	N	29	56	50	28
06	057	000104	2006	060570001	N	0	0	100	-
06	057	000702	2036	060570007	N	79	185	100	185
06	057	000102	2006	060570001	N	11	34	100	34
06	057	000102	2016	060570001	N	45	117	100	117
06	057	000102	3004	060570001	N	81	209	100	209
06	057	000102	2000	060570001	N	73	180	80	144
06	057	000102	3012	060570001	N	40	98	100	98
06	057	000102	3003	060570001	N	24	66	100	66

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000900	2085	060570009	N	38	69	0	-
06	057	000801	1011	060570008	N	26	50	0	-
06	057	000300	1035	060570003	N	0	0	0	-
06	057	000300	1045	060570003	N	47	100	0	-
06	057	000401	1013	060570004	N	0	0	0	-
06	057	000402	3011	060570004	N	6	18	0	-
06	057	000402	4032	060570004	N	43	106	0	-
06	057	000701	1041	060570007	N	2	4	0	-
06	057	000701	5052	060570007	N	4	10	0	-
06	057	000702	1071	060570007	N	2	5	100	5
06	057	000701	6041	060570007	N	57	132	0	-
06	057	000701	5025	060570007	N	3	3	0	-
06	057	000701	6027	060570007	N	5	11	0	-
06	057	000701	6050	060570007	N	4	5	100	5
06	057	000300	2048	060570003	N	0	0	0	-
06	057	000102	1006	060570001	N	0	0	100	-
06	057	000702	1096	060570007	N	0	0	0	-
06	057	000200	2007	060570002	N	8	24	0	-
06	057	000102	3010	060570001	N	11	19	100	19
06	057	000102	3015	060570001	N	98	261	0	-
06	057	000600	1018	060570006	N	0	0	0	-
06	057	000402	3048	060570004	N	0	0	0	-
06	057	000600	2007	060570006	N	0	0	0	-
06	057	000502	3060	060570005	N	0	0	100	-
06	057	000501	3020	060570005	N	6	10	100	10
06	057	000501	2018	060570005	N	93	203	100	203
06	057	000102	2027	060570001	N	4	12	0	-
06	057	000802	4046	060570008	N	13	25	100	25
06	057	000300	1014	060570003	N	3	7	0	-
06	057	000802	4038	060570008	N	0	0	0	-
06	057	000600	1027	060570006	N	50	125	100	125
06	057	000501	3007	060570005	N	3	6	100	6
06	057	000600	1016	060570006	N	1	4	0	-
06	057	000600	3008	060570006	N	10	26	100	26
06	057	000600	3011	060570006	N	71	130	0	-
06	057	000701	5054	060570007	N	0	0	0	-
06	057	000701	5011	060570007	N	4	9	0	-
06	057	000600	2026	060570006	N	35	67	80	54
06	057	000701	4016	060570007	N	2	6	0	-
06	057	000701	1054	060570007	N	0	0	0	-
06	057	000701	6075	060570007	N	0	0	0	-
06	057	000701	6092	060570007	N	12	23	0	-
06	057	000702	1043	060570007	N	5	9	0	-
06	057	000702	1060	060570007	N	1	2	0	-
06	057	000701	3004	060570007	N	14	42	100	42
06	057	000702	1019	060570007	N	0	0	100	-
06	057	000701	6067	060570007	N	0	0	0	-
06	057	000701	6030	060570007	N	0	0	0	-
06	057	000701	6085	060570007	N	0	0	0	-
06	057	000701	4030	060570007	N	2	2	100	2
06	057	000701	4023	060570007	N	0	0	100	-
06	057	000502	1010	060570005	N	45	105	0	-
06	057	000502	3006	060570005	N	15	41	50	21
06	057	000501	4007	060570005	N	8	14	100	14



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000501	4001	060570005	N	47	112	100	112
06	057	000501	4009	060570005	N	48	48	100	48
06	057	000600	5025	060570006	N	12	28	0	-
06	057	000802	3021	060570008	N	36	77	100	77
06	057	000701	4024	060570007	N	0	0	100	-
06	057	000600	3013	060570006	N	3	4	100	4
06	057	000702	2019	060570007	N	0	0	0	-
06	057	000104	3002	060570001	N	3	3	100	3
06	057	000102	1010	060570001	N	15	32	100	32
06	057	000702	2024	060570007	N	16	28	0	-
06	057	000600	3020	060570006	N	18	32	100	32
06	057	000200	1037	060570002	N	0	0	0	-
06	057	000200	1072	060570002	N	0	0	0	-
06	057	000200	1040	060570002	N	0	0	0	-
06	057	000300	1060	060570003	N	1	2	0	-
06	057	000200	1059	060570002	N	4	8	0	-
06	057	000702	1074	060570007	N	1	2	0	-
06	057	000702	1107	060570007	N	1	3	0	-
06	057	000502	3018	060570005	N	0	0	0	-
06	057	000501	2050	060570005	N	77	188	100	188
06	057	000501	2049	060570005	N	6	148	100	148
06	057	000600	5031	060570006	N	7	12	0	-
06	057	000600	5007	060570006	N	0	0	0	-
06	057	000200	2052	060570002	N	0	0	0	-
06	057	000701	6097	060570007	N	0	0	0	-
06	057	000701	6070	060570007	N	1	2	0	-
06	057	000701	6093	060570007	N	1	2	100	2
06	057	000702	1105	060570007	N	1	2	0	-
06	057	000702	1055	060570007	N	0	0	0	-
06	057	000702	1101	060570007	N	0	0	0	-
06	057	000702	1093	060570007	N	0	0	0	-
06	057	000900	1161	060570009	N	10	16	0	-
06	057	000900	1155	060570009	N	4	2	0	-
06	057	000401	3012	060570004	N	0	0	0	-
06	057	000200	2010	060570002	N	10	31	0	-
06	057	000200	2017	060570002	N	1	1	0	-
06	057	000200	2024	060570002	N	4	9	0	-
06	057	000105	3030	060570001	N	15	34	0	-
06	057	000200	2026	060570002	N	7	17	0	-
06	057	000200	1066	060570002	N	0	0	0	-
06	057	000600	1035	060570006	N	0	0	100	-
06	057	000502	3033	060570005	N	0	0	0	-
06	057	000502	3021	060570005	N	0	0	0	-
06	057	000402	1005	060570004	N	18	33	0	-
06	057	000402	3041	060570004	N	5	9	0	-
06	057	000701	1061	060570007	N	1	2	0	-
06	057	000801	2057	060570008	N	17	35	0	-
06	057	000801	2080	060570008	N	0	0	0	-
06	057	000801	2039	060570008	N	9	20	0	-
06	057	000801	2098	060570008	N	2	3	0	-
06	057	000801	2100	060570008	N	60	111	30	33
06	057	000801	3028	060570008	N	0	0	0	-
06	057	000801	3077	060570008	N	3	15	0	-
06	057	000801	3075	060570008	N	5	10	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000801	3082	060570008	N	7	16	0	-
06	057	000801	3098	060570008	N	1	2	0	-
06	057	000801	3104	060570008	N	0	0	0	-
06	057	000801	3050	060570008	N	16	24	100	24
06	057	000701	2083	060570007	N	4	5	100	5
06	057	000701	2119	060570007	N	9	18	100	18
06	057	000900	2103	060570009	N	0	0	0	-
06	057	000401	1007	060570004	N	0	0	0	-
06	057	000402	4001	060570004	N	0	0	0	-
06	057	000200	1064	060570002	N	4	8	0	-
06	057	000200	1048	060570002	N	5	11	0	-
06	057	000701	2145	060570007	N	8	17	50	9
06	057	000701	1006	060570007	N	2	5	0	-
06	057	000801	3000	060570008	N	0	0	0	-
06	057	000801	2082	060570008	N	0	0	0	-
06	057	000701	2074	060570007	N	0	0	0	-
06	057	000801	1025	060570008	N	16	36	0	-
06	057	000801	1013	060570008	N	137	285	50	143
06	057	000801	3089	060570008	N	33	80	100	80
06	057	000801	3096	060570008	N	42	97	100	97
06	057	000801	3094	060570008	N	13	17	100	17
06	057	000802	1016	060570008	N	27	55	30	17
06	057	000802	1030	060570008	N	16	31	80	25
06	057	000802	1048	060570008	N	45	92	0	-
06	057	000802	4005	060570008	N	11	27	100	27
06	057	000802	1052	060570008	N	0	0	0	-
06	057	000802	1058	060570008	N	4	6	0	-
06	057	000802	4044	060570008	N	0	0	0	-
06	057	000105	1001	060570001	N	5	10	0	-
06	057	000300	2029	060570003	N	0	0	0	-
06	057	000102	4016	060570001	N	18	43	100	43
06	057	000105	1010	060570001	N	1	2	100	2
06	057	000105	1008	060570001	N	12	31	0	-
06	057	000105	3016	060570001	N	5	16	0	-
06	057	000801	3044	060570008	N	0	0	0	-
06	057	000802	2057	060570008	N	9	17	0	-
06	057	000802	2051	060570008	N	6	16	50	8
06	057	000802	2056	060570008	N	12	29	0	-
06	057	000900	2136	060570009	N	8	19	0	-
06	057	000802	2028	060570008	N	0	0	0	-
06	057	000801	1003	060570008	N	0	0	0	-
06	057	000105	2014	060570001	N	50	102	0	-
06	057	000105	3029	060570001	N	4	9	0	-
06	057	000200	1071	060570002	N	4	10	0	-
06	057	000105	3035	060570001	N	8	17	50	9
06	057	000103	4005	060570001	N	30	83	100	83
06	057	000103	6006	060570001	N	27	76	100	76
06	057	000103	3012	060570001	N	0	0	0	-
06	057	000701	6084	060570007	N	2	5	0	-
06	057	000802	2050	060570008	N	31	59	0	-
06	057	000802	2048	060570008	N	12	28	0	-
06	057	000900	2127	060570009	N	0	0	0	-
06	057	000802	2001	060570008	N	1	1	0	-
06	057	000200	1070	060570002	N	0	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000103	7003	060570001	N	104	211	100	211
06	057	000103	1011	060570001	N	0	0	0	-
06	057	000402	2062	060570004	N	0	0	0	-
06	057	000402	2064	060570004	N	0	0	0	-
06	057	000401	3005	060570004	N	46	105	100	105
06	057	000401	3015	060570004	N	180	275	100	275
06	057	000402	3044	060570004	N	10	15	0	-
06	057	000401	4006	060570004	N	169	311	100	311
06	057	000401	4007	060570004	N	58	104	100	104
06	057	000401	2015	060570004	N	52	112	100	112
06	057	000103	7006	060570001	N	70	123	100	123
06	057	000502	3054	060570005	N	0	0	0	-
06	057	000701	4025	060570007	N	0	0	100	-
06	057	000103	2007	060570001	N	6	7	0	-
06	057	000103	5008	060570001	N	16	37	100	37
06	057	000401	4005	060570004	N	1	4	100	4
06	057	000600	3001	060570006	N	23	51	100	51
06	057	000401	1005	060570004	N	7	14	0	-
06	057	000401	4004	060570004	N	53	93	100	93
06	057	000402	3037	060570004	N	3	7	0	-
06	057	000402	4035	060570004	N	1	3	0	-
06	057	000402	3054	060570004	N	25	53	0	-
06	057	000402	3051	060570004	N	19	39	0	-
06	057	000300	1022	060570003	N	0	0	0	-
06	057	000402	1007	060570004	N	53	143	30	43
06	057	000402	2001	060570004	N	4	8	0	-
06	057	000402	1004	060570004	N	20	34	0	-
06	057	000702	1014	060570007	N	19	43	100	43
06	057	000401	1014	060570004	N	1	2	0	-
06	057	000802	3003	060570008	N	27	48	100	48
06	057	000402	2003	060570004	N	15	45	0	-
06	057	000502	4010	060570005	N	9	13	0	-
06	057	000702	2029	060570007	N	3	8	0	-
06	057	000300	1064	060570003	N	6	12	0	-
06	057	000300	2058	060570003	N	30	79	0	-
06	057	000200	1033	060570002	N	0	0	0	-
06	057	000105	2010	060570001	N	0	0	0	-
06	057	000104	3004	060570001	N	58	84	100	84
06	057	000402	3033	060570004	N	0	0	0	-
06	057	000802	4033	060570008	N	13	35	100	35
06	057	000501	2006	060570005	N	7	15	100	15
06	057	000802	4077	060570008	N	0	0	0	-
06	057	000702	1028	060570007	N	3	6	50	3
06	057	000701	6043	060570007	N	5	13	0	-
06	057	000600	4008	060570006	N	0	0	0	-
06	057	000501	3021	060570005	N	0	0	0	-
06	057	000801	1027	060570008	N	1	3	0	-
06	057	000501	1010	060570005	N	10	19	100	19
06	057	000501	4006	060570005	N	5	9	0	-
06	057	000502	2002	060570005	N	0	0	0	-
06	057	000501	1018	060570005	N	30	64	0	-
06	057	000501	5027	060570005	N	0	0	0	-
06	057	000502	1000	060570005	N	49	48	0	-
06	057	000501	5023	060570005	N	0	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000600	4006	060570006	N	0	0	0	-
06	057	000105	3003	060570001	N	1	5	0	-
06	057	000600	3032	060570006	N	10	24	100	24
06	057	000502	1013	060570005	N	11	25	0	-
06	057	000600	3037	060570006	N	15	20	0	-
06	057	000600	3028	060570006	N	8	22	100	22
06	057	000600	5021	060570006	N	8	20	0	-
06	057	000802	4063	060570008	N	6	12	100	12
06	057	000802	4061	060570008	N	2	8	100	8
06	057	000103	1008	060570001	N	0	0	0	-
06	057	000600	5027	060570006	N	0	0	100	-
06	057	000104	1003	060570001	N	2	5	100	5
06	057	000701	5038	060570007	N	3	6	100	6
06	057	000300	2005	060570003	N	17	43	100	43
06	057	000702	2025	060570007	N	27	68	0	-
06	057	000300	1066	060570003	N	0	0	0	-
06	057	000600	4000	060570006	N	2	0	100	-
06	057	000802	4070	060570008	N	4	6	100	6
06	057	000701	1009	060570007	N	0	0	0	-
06	057	000701	3003	060570007	N	0	0	0	-
06	057	000701	3023	060570007	N	27	43	100	43
06	057	000701	3026	060570007	N	13	31	100	31
06	057	000802	4006	060570008	N	0	0	100	-
06	057	000701	4006	060570007	N	1	2	0	-
06	057	000402	4047	060570004	N	4	5	0	-
06	057	000802	1033	060570008	N	0	0	0	-
06	057	000701	1053	060570007	N	0	0	0	-
06	057	000802	1021	060570008	N	0	0	0	-
06	057	000802	4060	060570008	N	29	49	100	49
06	057	000802	1004	060570008	N	6	14	100	14
06	057	000104	1014	060570001	N	39	79	60	47
06	057	000801	3034	060570008	N	0	0	0	-
06	057	000402	1011	060570004	N	0	0	0	-
06	057	000200	1017	060570002	N	4	3	0	-
06	057	000801	2045	060570008	N	43	91	0	-
06	057	000701	4002	060570007	N	14	32	50	16
06	057	000701	6087	060570007	N	0	0	0	-
06	057	000701	6091	060570007	N	0	0	0	-
06	057	000802	1040	060570008	N	0	0	0	-
06	057	000600	2006	060570006	N	0	0	100	-
06	057	000104	1012	060570001	N	23	52	100	52
06	057	000701	6083	060570007	N	4	3	0	-
06	057	000702	1029	060570007	N	4	8	50	4
06	057	000105	3008	060570001	N	3	11	0	-
06	057	000402	4018	060570004	N	0	0	0	-
06	057	000701	5045	060570007	N	4	9	0	-
06	057	000103	3004	060570001	N	2	4	100	4
06	057	000501	2011	060570005	N	7	21	100	21
06	057	000801	3036	060570008	N	0	0	0	-
06	057	000802	2058	060570008	N	13	22	0	-
06	057	000200	1062	060570002	N	0	0	0	-
06	057	000801	1038	060570008	N	4	6	100	6
06	057	000300	2037	060570003	N	0	0	0	-
06	057	000300	2036	060570003	N	28	70	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000300	2032	060570003	N	0	0	0	-
06	057	000300	2015	060570003	N	4	9	100	9
06	057	000702	2026	060570007	N	49	96	50	48
06	057	000300	1013	060570003	N	19	36	0	-
06	057	000402	3027	060570004	N	21	51	0	-
06	057	000801	3069	060570008	N	0	0	0	-
06	057	000801	2023	060570008	N	0	0	0	-
06	057	000402	3029	060570004	N	1	0	100	-
06	057	000801	2052	060570008	N	1	0	0	-
06	057	000300	2065	060570003	N	9	19	50	10
06	057	000300	2034	060570003	N	1	4	0	-
06	057	000104	2000	060570001	N	28	62	100	62
06	057	000702	1033	060570007	N	14	34	0	-
06	057	000702	2037	060570007	N	25	50	100	50
06	057	000104	3010	060570001	N	15	31	0	-
06	057	000702	2043	060570007	N	3	8	0	-
06	057	000102	2015	060570001	N	28	83	100	83
06	057	000102	2009	060570001	N	44	110	100	110
06	057	000102	3006	060570001	N	95	240	100	240
06	057	000102	3001	060570001	N	37	77	100	77
06	057	000102	3013	060570001	N	2	7	100	7
06	057	000402	3031	060570004	N	34	67	0	-
06	057	000502	4005	060570005	N	0	0	0	-
06	057	000300	1029	060570003	N	0	0	0	-
06	057	000300	1043	060570003	N	0	0	0	-
06	057	000300	1058	060570003	N	6	14	0	-
06	057	000300	2055	060570003	N	3	6	0	-
06	057	000900	2104	060570009	N	11	14	0	-
06	057	000401	1004	060570004	N	94	192	40	77
06	057	000402	4036	060570004	N	88	203	10	20
06	057	000402	2017	060570004	N	10	22	0	-
06	057	000702	1002	060570007	N	17	38	50	19
06	057	000102	2028	060570001	N	21	39	0	-
06	057	000104	3009	060570001	N	2	5	0	-
06	057	000600	1036	060570006	N	0	0	100	-
06	057	000300	2006	060570003	N	12	25	100	25
06	057	000501	2057	060570005	N	0	0	100	-
06	057	000600	1013	060570006	N	0	0	100	-
06	057	000600	1011	060570006	N	127	131	100	131
06	057	000600	1017	060570006	N	0	0	0	-
06	057	000701	3032	060570007	N	28	76	100	76
06	057	000701	3024	060570007	N	1	1	100	1
06	057	000701	3035	060570007	N	4	10	100	10
06	057	000701	1018	060570007	N	13	28	0	-
06	057	000600	3034	060570006	N	2	4	100	4
06	057	000702	2051	060570007	N	4	6	100	6
06	057	000702	2023	060570007	N	29	58	0	-
06	057	000701	4041	060570007	N	0	0	100	-
06	057	000701	5019	060570007	N	3	6	0	-
06	057	000702	1035	060570007	N	15	35	0	-
06	057	000702	1021	060570007	N	8	21	0	-
06	057	000701	6033	060570007	N	30	59	0	-
06	057	000702	1037	060570007	N	7	13	0	-
06	057	000702	1024	060570007	N	7	18	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000702	1066	060570007	N	5	12	0	-
06	057	000702	1018	060570007	N	0	0	100	-
06	057	000701	6073	060570007	N	0	0	0	-
06	057	000701	4043	060570007	N	8	19	100	19
06	057	000501	5002	060570005	N	9	15	0	-
06	057	000600	5001	060570006	N	1	7	0	-
06	057	000501	3004	060570005	N	4	10	100	10
06	057	000600	5023	060570006	N	1	3	0	-
06	057	000701	3017	060570007	N	12	22	100	22
06	057	000701	3014	060570007	N	10	21	100	21
06	057	000702	2053	060570007	N	14	23	100	23
06	057	000802	3000	060570008	N	15	33	30	10
06	057	000402	2051	060570004	N	0	0	0	-
06	057	000300	1062	060570003	N	0	0	0	-
06	057	000402	3045	060570004	N	2	6	0	-
06	057	000702	1016	060570007	N	47	84	20	17
06	057	000701	5031	060570007	N	3	5	0	-
06	057	000702	1078	060570007	N	3	5	0	-
06	057	000702	1104	060570007	N	0	0	0	-
06	057	000502	2003	060570005	N	312	670	10	67
06	057	000600	5026	060570006	N	21	45	0	-
06	057	000600	5033	060570006	N	6	11	0	-
06	057	000900	2069	060570009	N	31	83	0	-
06	057	000900	2133	060570009	N	18	46	0	-
06	057	000200	2029	060570002	N	34	77	0	-
06	057	000501	1015	060570005	N	7	17	100	17
06	057	000501	1011	060570005	N	0	0	100	-
06	057	000200	2058	060570002	N	0	0	0	-
06	057	000200	1075	060570002	N	9	19	0	-
06	057	000300	2040	060570003	N	0	0	0	-
06	057	000701	6055	060570007	N	0	0	0	-
06	057	000701	6072	060570007	N	3	4	100	4
06	057	000701	6052	060570007	N	0	0	0	-
06	057	000701	6090	060570007	N	0	0	0	-
06	057	000102	2017	060570001	N	27	44	100	44
06	057	000102	1008	060570001	N	0	0	100	-
06	057	000102	2011	060570001	N	27	50	100	50
06	057	000104	2001	060570001	N	5	12	100	12
06	057	000104	1010	060570001	N	23	54	100	54
06	057	000402	4007	060570004	N	50	119	10	12
06	057	000401	1008	060570004	N	19	40	100	40
06	057	000402	3042	060570004	N	30	53	0	-
06	057	000401	3011	060570004	N	0	0	0	-
06	057	000105	3019	060570001	N	0	0	0	-
06	057	000105	3018	060570001	N	0	0	0	-
06	057	000200	2033	060570002	N	0	0	0	-
06	057	000802	4066	060570008	N	35	56	100	56
06	057	000600	1034	060570006	N	0	0	100	-
06	057	000600	1037	060570006	N	11	15	100	15
06	057	000701	1015	060570007	N	3	8	0	-
06	057	000701	4005	060570007	N	0	0	0	-
06	057	000801	3084	060570008	N	1	2	0	-
06	057	000502	3061	060570005	N	0	0	0	-
06	057	000701	4020	060570007	N	2	5	0	-



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000801	2055	060570008	N	15	30	0	-
06	057	000801	2084	060570008	N	1	1	0	-
06	057	000801	2056	060570008	N	1	2	0	-
06	057	000801	2058	060570008	N	13	26	0	-
06	057	000801	2088	060570008	N	0	0	0	-
06	057	000801	2092	060570008	N	32	67	0	-
06	057	000802	4013	060570008	N	1	1	0	-
06	057	000801	3029	060570008	N	1	0	0	-
06	057	000801	3083	060570008	N	66	129	80	103
06	057	000801	3061	060570008	N	9	12	0	-
06	057	000801	3048	060570008	N	20	30	100	30
06	057	000801	3053	060570008	N	25	49	100	49
06	057	000701	4054	060570007	N	4	6	0	-
06	057	000701	2147	060570007	N	13	22	100	22
06	057	000402	4049	060570004	N	1	3	0	-
06	057	000105	1017	060570001	N	1	2	100	2
06	057	000801	3106	060570008	N	0	0	0	-
06	057	000801	3059	060570008	N	0	0	0	-
06	057	000801	2081	060570008	N	0	0	0	-
06	057	000801	1035	060570008	N	0	0	0	-
06	057	000802	1025	060570008	N	0	0	0	-
06	057	000802	1059	060570008	N	0	0	0	-
06	057	000802	1010	060570008	N	18	34	0	-
06	057	000802	4016	060570008	N	0	0	0	-
06	057	000802	1050	060570008	N	0	0	0	-
06	057	000802	1055	060570008	N	5	7	0	-
06	057	000802	1057	060570008	N	1	1	0	-
06	057	000802	2024	060570008	N	0	0	0	-
06	057	000802	1056	060570008	N	1	2	0	-
06	057	000802	2012	060570008	N	2	3	0	-
06	057	000300	2044	060570003	N	1	1	0	-
06	057	000103	2001	060570001	N	24	51	0	-
06	057	000105	1007	060570001	N	3	6	0	-
06	057	000104	3016	060570001	N	14	35	100	35
06	057	000104	3018	060570001	N	3	6	0	-
06	057	000102	4003	060570001	N	13	35	100	35
06	057	000105	3007	060570001	N	32	82	0	-
06	057	000105	1023	060570001	N	6	18	0	-
06	057	000105	3017	060570001	N	0	0	0	-
06	057	000105	3026	060570001	N	3	5	0	-
06	057	000105	3023	060570001	N	1	1	0	-
06	057	000105	3022	060570001	N	0	0	0	-
06	057	000802	4043	060570008	N	19	30	0	-
06	057	000802	2039	060570008	N	27	62	0	-
06	057	000802	2042	060570008	N	7	14	0	-
06	057	000802	2054	060570008	N	18	35	0	-
06	057	000802	2000	060570008	N	112	206	100	206
06	057	000802	4034	060570008	N	32	71	50	36
06	057	000900	2130	060570009	N	61	111	0	-
06	057	000802	4002	060570008	N	50	124	50	62
06	057	000900	2080	060570009	N	6	14	0	-
06	057	000105	1024	060570001	N	0	0	0	-
06	057	000103	7002	060570001	N	26	61	100	61
06	057	000103	5006	060570001	N	65	152	100	152

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000103	5007	060570001	N	45	97	100	97
06	057	000103	3006	060570001	N	0	0	0	-
06	057	000300	1026	060570003	N	22	43	60	26
06	057	000701	1040	060570007	N	4	14	0	-
06	057	000402	3039	060570004	N	175	361	0	-
06	057	000802	2046	060570008	N	14	33	0	-
06	057	000802	2023	060570008	N	23	61	0	-
06	057	000802	1002	060570008	N	2	11	100	11
06	057	000802	2040	060570008	N	6	12	20	2
06	057	000801	2031	060570008	N	0	0	0	-
06	057	000802	1005	060570008	N	3	4	100	4
06	057	000802	1036	060570008	N	15	24	0	-
06	057	000402	2020	060570004	N	31	65	0	-
06	057	000402	2046	060570004	N	8	20	0	-
06	057	000103	1007	060570001	N	0	0	0	-
06	057	000200	2020	060570002	N	7	13	0	-
06	057	000103	1000	060570001	N	0	0	0	-
06	057	000105	1034	060570001	N	1	2	0	-
06	057	000103	5002	060570001	N	87	185	100	185
06	057	000402	2025	060570004	N	12	27	0	-
06	057	000402	2028	060570004	N	0	0	0	-
06	057	000401	3016	060570004	N	0	0	100	-
06	057	000402	3055	060570004	N	9	21	0	-
06	057	000502	3020	060570005	N	0	0	0	-
06	057	000300	2038	060570003	N	0	0	0	-
06	057	000701	4027	060570007	N	0	0	100	-
06	057	000600	1031	060570006	N	11	18	100	18
06	057	000600	1024	060570006	N	0	0	100	-
06	057	000600	1030	060570006	N	16	21	100	21
06	057	000600	2013	060570006	N	0	0	100	-
06	057	000501	5019	060570005	N	14	25	0	-
06	057	000401	2016	060570004	N	0	0	0	-
06	057	000600	3005	060570006	N	10	17	100	17
06	057	000104	1015	060570001	N	23	48	100	48
06	057	000701	2153	060570007	N	3	7	100	7
06	057	000402	2018	060570004	N	51	123	0	-
06	057	000402	1008	060570004	N	2	5	0	-
06	057	000502	2000	060570005	N	27	58	100	58
06	057	000802	4055	060570008	N	79	162	100	162
06	057	000701	4049	060570007	N	3	5	0	-
06	057	000402	2019	060570004	N	0	0	0	-
06	057	000402	2015	060570004	N	0	0	0	-
06	057	000200	1023	060570002	N	5	10	0	-
06	057	000200	1036	060570002	N	0	0	0	-
06	057	000300	2059	060570003	N	0	0	0	-
06	057	000105	3025	060570001	N	3	7	0	-
06	057	000802	1028	060570008	N	65	111	20	22
06	057	000801	2033	060570008	N	0	0	0	-
06	057	000801	3040	060570008	N	0	0	0	-
06	057	000501	2029	060570005	N	3	8	100	8
06	057	000802	3022	060570008	N	26	57	100	57
06	057	000501	2016	060570005	N	4	7	100	7
06	057	000802	3024	060570008	N	18	39	100	39
06	057	000501	3023	060570005	N	10	37	100	37

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000402	2037	060570004	N	0	0	0	-
06	057	000801	2094	060570008	N	2	9	0	-
06	057	000402	1003	060570004	N	16	24	0	-
06	057	000600	1028	060570006	N	0	0	0	-
06	057	000501	1016	060570005	N	9	20	100	20
06	057	000501	4000	060570005	N	9	20	0	-
06	057	000501	4010	060570005	N	31	65	100	65
06	057	000502	4007	060570005	N	0	0	0	-
06	057	000501	1014	060570005	N	9	18	100	18
06	057	000402	3047	060570004	N	2	3	0	-
06	057	000600	2022	060570006	N	0	0	0	-
06	057	000501	5000	060570005	N	23	36	100	36
06	057	000501	5001	060570005	N	24	57	0	-
06	057	000501	1019	060570005	N	17	29	0	-
06	057	000501	5016	060570005	N	25	43	0	-
06	057	000701	4033	060570007	N	0	0	100	-
06	057	000501	5021	060570005	N	0	0	0	-
06	057	000502	1001	060570005	N	44	100	0	-
06	057	000104	3011	060570001	N	0	0	0	-
06	057	000104	2009	060570001	N	0	0	0	-
06	057	000402	4008	060570004	N	9	18	0	-
06	057	000502	4023	060570005	N	6	19	50	10
06	057	000600	2034	060570006	N	4	8	0	-
06	057	000200	1015	060570002	N	2	2	0	-
06	057	000102	3017	060570001	N	3	9	0	-
06	057	000103	2012	060570001	N	17	40	0	-
06	057	000801	3091	060570008	N	4	5	100	5
06	057	000502	2004	060570005	N	0	0	0	-
06	057	000502	1007	060570005	N	26	63	0	-
06	057	000600	2015	060570006	N	0	0	0	-
06	057	000600	5005	060570006	N	30	51	0	-
06	057	000600	3009	060570006	N	8	9	0	-
06	057	000502	3009	060570005	N	19	20	100	20
06	057	000600	5014	060570006	N	71	120	0	-
06	057	000701	4039	060570007	N	0	0	100	-
06	057	000701	4044	060570007	N	0	0	0	-
06	057	000502	3032	060570005	N	0	0	0	-
06	057	000600	4012	060570006	N	108	195	0	-
06	057	000300	1024	060570003	N	0	0	0	-
06	057	000802	2029	060570008	N	0	0	0	-
06	057	000501	3022	060570005	N	101	205	50	103
06	057	000600	4014	060570006	N	3	4	0	-
06	057	000600	4007	060570006	N	6	9	0	-
06	057	000600	3022	060570006	N	0	0	100	-
06	057	000502	3038	060570005	N	28	35	0	-
06	057	000501	2024	060570005	N	0	0	100	-
06	057	000600	3003	060570006	N	1	4	100	4
06	057	000300	2010	060570003	N	4	11	100	11
06	057	000300	2011	060570003	N	8	25	100	25
06	057	000104	2018	060570001	N	8	22	100	22
06	057	000702	2004	060570007	N	1	2	100	2
06	057	000502	3058	060570005	N	0	0	0	-
06	057	000701	4003	060570007	N	4	11	100	11
06	057	000701	3000	060570007	N	60	134	100	134

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000701	3002	060570007	N	10	19	100	19
06	057	000701	4031	060570007	N	2	3	100	3
06	057	000701	4012	060570007	N	0	0	0	-
06	057	000802	2032	060570008	N	7	19	0	-
06	057	000701	5005	060570007	N	1	2	0	-
06	057	000702	1025	060570007	N	1	1	0	-
06	057	000801	3095	060570008	N	0	0	0	-
06	057	000501	2022	060570005	N	12	15	100	15
06	057	000501	2058	060570005	N	0	0	100	-
06	057	000802	4065	060570008	N	17	27	100	27
06	057	000501	2059	060570005	N	0	0	100	-
06	057	000501	2010	060570005	N	33	45	100	45
06	057	000702	1049	060570007	N	4	9	0	-
06	057	000600	5008	060570006	N	0	0	0	-
06	057	000802	4050	060570008	N	16	30	0	-
06	057	000402	3052	060570004	N	16	38	0	-
06	057	000502	3016	060570005	N	0	0	0	-
06	057	000702	2035	060570007	N	8	24	100	24
06	057	000801	1008	060570008	N	0	0	0	-
06	057	000103	6013	060570001	N	4	8	0	-
06	057	000103	3007	060570001	N	9	31	100	31
06	057	000801	2063	060570008	N	0	0	0	-
06	057	000802	1000	060570008	N	12	21	100	21
06	057	000600	2004	060570006	N	124	184	100	184
06	057	000501	5030	060570005	N	0	0	0	-
06	057	000502	3037	060570005	N	25	43	0	-
06	057	000105	1027	060570001	N	2	7	100	7
06	057	000105	2013	060570001	N	4	9	0	-
06	057	000701	1039	060570007	N	3	8	0	-
06	057	000701	4035	060570007	N	10	22	0	-
06	057	000701	5047	060570007	N	8	18	0	-
06	057	000600	3017	060570006	N	2	1	100	1
06	057	000802	1032	060570008	N	6	12	100	12
06	057	000802	3009	060570008	N	3	7	0	-
06	057	000102	4017	060570001	N	8	20	100	20
06	057	000801	1019	060570008	N	0	0	0	-
06	057	000402	3056	060570004	N	2	3	0	-
06	057	000702	2016	060570007	N	3	7	100	7
06	057	000200	2019	060570002	N	3	6	0	-
06	057	000801	3042	060570008	N	0	0	0	-
06	057	000801	3043	060570008	N	0	0	0	-
06	057	000802	1003	060570008	N	0	0	0	-
06	057	000801	1029	060570008	N	0	0	0	-
06	057	000801	1030	060570008	N	0	0	0	-
06	057	000300	2016	060570003	N	0	0	0	-
06	057	000702	2021	060570007	N	167	370	0	-
06	057	000702	2038	060570007	N	1	2	100	2
06	057	000104	2005	060570001	N	0	0	0	-
06	057	000104	2012	060570001	N	1	2	100	2
06	057	000104	2025	060570001	N	16	15	100	15
06	057	000104	2015	060570001	N	12	27	100	27
06	057	000104	2024	060570001	N	32	39	100	39
06	057	000102	3005	060570001	N	16	38	100	38
06	057	000102	3014	060570001	N	17	38	100	38

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000102	1004	060570001	N	19	43	100	43
06	057	000802	4012	060570008	N	9	16	0	-
06	057	000802	4017	060570008	N	2	4	0	-
06	057	000402	3028	060570004	N	2	3	0	-
06	057	000502	4006	060570005	N	0	0	0	-
06	057	000300	1037	060570003	N	0	0	0	-
06	057	000300	1047	060570003	N	0	0	0	-
06	057	000300	1053	060570003	N	0	0	0	-
06	057	000300	2054	060570003	N	1	3	0	-
06	057	000402	4012	060570004	N	11	31	0	-
06	057	000401	1002	060570004	N	0	0	0	-
06	057	000401	4010	060570004	N	0	0	0	-
06	057	000402	4041	060570004	N	20	39	0	-
06	057	000702	1069	060570007	N	1	2	0	-
06	057	000701	1036	060570007	N	6	8	0	-
06	057	000701	1034	060570007	N	0	0	0	-
06	057	000701	1038	060570007	N	3	5	0	-
06	057	000701	5017	060570007	N	19	41	0	-
06	057	000702	1075	060570007	N	12	28	50	14
06	057	000701	5004	060570007	N	46	94	0	-
06	057	000701	6044	060570007	N	84	181	10	18
06	057	000702	1003	060570007	N	20	60	100	60
06	057	000702	1081	060570007	N	0	0	0	-
06	057	000701	6048	060570007	N	55	102	100	102
06	057	000102	2002	060570001	N	0	0	0	-
06	057	000102	2001	060570001	N	0	0	0	-
06	057	000104	3008	060570001	N	7	23	0	-
06	057	000501	3002	060570005	N	56	123	50	62
06	057	000502	3034	060570005	N	7	19	0	-
06	057	000702	1095	060570007	N	0	0	0	-
06	057	000104	2022	060570001	N	127	237	100	237
06	057	000702	2034	060570007	N	10	16	100	16
06	057	000300	2008	060570003	N	13	22	0	-
06	057	000802	4056	060570008	N	2	4	100	4
06	057	000701	3030	060570007	N	2	3	100	3
06	057	000701	2157	060570007	N	0	0	100	-
06	057	000600	3036	060570006	N	8	13	100	13
06	057	000702	2008	060570007	N	0	0	0	-
06	057	000600	2039	060570006	N	0	0	100	-
06	057	000701	4038	060570007	N	0	0	100	-
06	057	000701	4008	060570007	N	0	0	0	-
06	057	000701	4010	060570007	N	2	3	0	-
06	057	000701	1032	060570007	N	13	28	0	-
06	057	000702	1031	060570007	N	24	49	0	-
06	057	000702	1064	060570007	N	2	5	0	-
06	057	000701	6025	060570007	N	2	6	0	-
06	057	000701	3021	060570007	N	4	11	0	-
06	057	000701	2149	060570007	N	20	43	20	9
06	057	000802	3010	060570008	N	0	0	0	-
06	057	000701	1044	060570007	N	1	1	0	-
06	057	000600	1021	060570006	N	0	0	100	-
06	057	000501	3017	060570005	N	0	0	100	-
06	057	000501	1001	060570005	N	12	21	0	-
06	057	000600	2009	060570006	N	162	375	40	150

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000600	5028	060570006	N	14	29	0	-
06	057	000502	4017	060570005	N	15	35	0	-
06	057	000501	3005	060570005	N	20	31	100	31
06	057	000501	4004	060570005	N	17	26	0	-
06	057	000600	2019	060570006	N	47	100	0	-
06	057	000802	3018	060570008	N	10	22	100	22
06	057	000701	3012	060570007	N	9	23	100	23
06	057	000300	2046	060570003	N	2	4	0	-
06	057	000103	7005	060570001	N	1	3	100	3
06	057	000802	4040	060570008	N	8	22	0	-
06	057	000600	5030	060570006	N	0	0	0	-
06	057	000200	1055	060570002	N	0	0	0	-
06	057	000200	1042	060570002	N	0	0	0	-
06	057	000200	1018	060570002	N	0	0	0	-
06	057	000200	1027	060570002	N	12	25	0	-
06	057	000105	2001	060570001	N	45	110	10	11
06	057	000702	1001	060570007	N	0	0	0	-
06	057	000702	1050	060570007	N	0	0	0	-
06	057	000103	2004	060570001	N	58	143	0	-
06	057	000501	2045	060570005	N	158	286	100	286
06	057	000104	1025	060570001	N	2	4	100	4
06	057	000600	4011	060570006	N	11	25	0	-
06	057	000502	3027	060570005	N	0	0	0	-
06	057	000501	1007	060570005	N	5	2	100	2
06	057	000200	1057	060570002	N	0	0	0	-
06	057	000200	1016	060570002	N	2	5	0	-
06	057	000300	2043	060570003	N	4	4	0	-
06	057	000300	2030	060570003	N	2	2	0	-
06	057	000300	2057	060570003	N	1	2	0	-
06	057	000701	6068	060570007	N	0	0	0	-
06	057	000702	1091	060570007	N	0	0	0	-
06	057	000104	1006	060570001	N	0	0	0	-
06	057	000104	1002	060570001	N	47	102	100	102
06	057	000300	2024	060570003	N	0	0	0	-
06	057	000900	2117	060570009	N	166	342	0	-
06	057	000200	2000	060570002	N	9	22	0	-
06	057	000801	2048	060570008	N	20	55	0	-
06	057	000801	2050	060570008	N	4	15	0	-
06	057	000402	4015	060570004	N	1	2	0	-
06	057	000402	4000	060570004	N	0	0	0	-
06	057	000200	2037	060570002	N	14	34	0	-
06	057	000200	2036	060570002	N	15	48	0	-
06	057	000502	3022	060570005	N	0	0	0	-
06	057	000401	1003	060570004	N	2	8	0	-
06	057	000402	3032	060570004	N	107	173	0	-
06	057	000802	1017	060570008	N	32	51	0	-
06	057	000701	1008	060570007	N	6	19	0	-
06	057	000801	3088	060570008	N	5	14	0	-
06	057	000701	4045	060570007	N	1	2	0	-
06	057	000105	1019	060570001	N	0	0	100	-
06	057	000801	3039	060570008	N	0	0	0	-
06	057	000701	3018	060570007	N	9	23	100	23
06	057	000801	2089	060570008	N	1	2	0	-
06	057	000801	3023	060570008	N	0	0	0	-



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000801	3021	060570008	N	0	0	0	-
06	057	000801	3030	060570008	N	1	2	0	-
06	057	000801	3108	060570008	N	1	2	0	-
06	057	000701	2125	060570007	N	38	88	10	9
06	057	000402	3016	060570004	N	8	22	0	-
06	057	000200	2039	060570002	N	12	29	0	-
06	057	000200	2047	060570002	N	36	99	0	-
06	057	000200	2048	060570002	N	1	2	0	-
06	057	000200	2041	060570002	N	5	21	0	-
06	057	000200	2034	060570002	N	8	14	0	-
06	057	000701	2148	060570007	N	15	34	100	34
06	057	000701	2154	060570007	N	1	2	0	-
06	057	000701	2080	060570007	N	0	0	0	-
06	057	000801	2060	060570008	N	10	18	0	-
06	057	000701	2075	060570007	N	0	0	0	-
06	057	000801	1004	060570008	N	0	0	0	-
06	057	000801	2103	060570008	N	9	16	100	16
06	057	000402	3004	060570004	N	7	16	0	-
06	057	000802	1014	060570008	N	3	13	0	-
06	057	000802	1015	060570008	N	5	5	0	-
06	057	000802	2018	060570008	N	2	5	50	3
06	057	000802	1020	060570008	N	0	0	0	-
06	057	000802	1044	060570008	N	5	10	0	-
06	057	000802	2015	060570008	N	9	17	0	-
06	057	000802	2025	060570008	N	10	26	0	-
06	057	000802	2011	060570008	N	0	0	0	-
06	057	000802	2034	060570008	N	6	19	0	-
06	057	000102	4005	060570001	N	71	143	100	143
06	057	000102	4002	060570001	N	113	268	100	268
06	057	000103	2010	060570001	N	18	45	0	-
06	057	000200	2021	060570002	N	3	6	0	-
06	057	000105	3000	060570001	N	12	33	0	-
06	057	000105	1012	060570001	N	43	112	50	56
06	057	000105	1018	060570001	N	16	30	100	30
06	057	000105	2003	060570001	N	7	17	0	-
06	057	000105	1026	060570001	N	2	4	0	-
06	057	000802	2003	060570008	N	19	34	0	-
06	057	000900	2129	060570009	N	6	11	0	-
06	057	000802	3005	060570008	N	0	0	0	-
06	057	000801	1033	060570008	N	92	170	0	-
06	057	000802	1031	060570008	N	32	72	50	36
06	057	000801	2032	060570008	N	0	0	0	-
06	057	000105	2005	060570001	N	1	4	0	-
06	057	000102	2005	060570001	N	20	38	100	38
06	057	000103	7013	060570001	N	68	148	100	148
06	057	000103	7014	060570001	N	28	69	100	69
06	057	000105	3033	060570001	N	2	6	0	-
06	057	000103	3009	060570001	N	19	40	50	20
06	057	000105	3036	060570001	N	93	206	0	-
06	057	000103	3002	060570001	N	2	6	0	-
06	057	000802	2045	060570008	N	16	29	0	-
06	057	000702	2031	060570007	N	0	0	0	-
06	057	000801	1044	060570008	N	0	0	0	-
06	057	000801	1042	060570008	N	2	5	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000801	2107	060570008	N	0	0	0	-
06	057	000802	1011	060570008	N	0	0	0	-
06	057	000802	2061	060570008	N	31	55	0	-
06	057	000802	2059	060570008	N	70	98	100	98
06	057	000402	2027	060570004	N	11	28	0	-
06	057	000402	2043	060570004	N	15	33	0	-
06	057	000105	1033	060570001	N	7	17	100	17
06	057	000105	1002	060570001	N	4	2	0	-
06	057	000102	4021	060570001	N	2	8	100	8
06	057	000102	1017	060570001	N	7	12	100	12
06	057	000103	1001	060570001	N	22	51	0	-
06	057	000402	2032	060570004	N	15	39	0	-
06	057	000402	2031	060570004	N	0	0	0	-
06	057	000402	4031	060570004	N	0	0	0	-
06	057	000501	2000	060570005	N	0	0	0	-
06	057	000401	3014	060570004	N	48	102	100	102
06	057	000402	3020	060570004	N	0	0	0	-
06	057	000401	2008	060570004	N	156	287	100	287
06	057	000401	2004	060570004	N	18	31	0	-
06	057	000401	2005	060570004	N	52	99	100	99
06	057	000401	2010	060570004	N	78	155	100	155
06	057	000401	4008	060570004	N	35	64	100	64
06	057	000401	3027	060570004	N	0	0	0	-
06	057	000502	3030	060570005	N	0	0	0	-
06	057	000801	1043	060570008	N	0	0	0	-
06	057	000600	2014	060570006	N	29	74	0	-
06	057	000401	2002	060570004	N	0	0	0	-
06	057	000402	2002	060570004	N	171	373	10	37
06	057	000600	3002	060570006	N	7	9	100	9
06	057	000102	2007	060570001	N	12	31	100	31
06	057	000402	2029	060570004	N	0	0	0	-
06	057	000402	3038	060570004	N	1	2	0	-
06	057	000401	2006	060570004	N	1	0	100	-
06	057	000300	1002	060570003	N	1	0	0	-
06	057	000401	4001	060570004	N	62	130	100	130
06	057	000402	4046	060570004	N	9	22	0	-
06	057	000300	1038	060570003	N	0	0	0	-
06	057	000300	1046	060570003	N	0	0	0	-
06	057	000300	1059	060570003	N	0	0	0	-
06	057	000402	2054	060570004	N	5	17	0	-
06	057	000701	5056	060570007	N	37	98	100	98
06	057	000701	3015	060570007	N	8	21	100	21
06	057	000200	1025	060570002	N	2	4	0	-
06	057	000300	2060	060570003	N	2	4	0	-
06	057	000200	1034	060570002	N	0	0	0	-
06	057	000200	1019	060570002	N	0	0	0	-
06	057	000200	1069	060570002	N	0	0	0	-
06	057	000802	1038	060570008	N	24	41	0	-
06	057	000104	2030	060570001	N	25	33	100	33
06	057	000402	3007	060570004	N	5	11	0	-
06	057	000802	4031	060570008	N	54	113	100	113
06	057	000501	2007	060570005	N	11	26	100	26
06	057	000501	2021	060570005	N	23	58	100	58
06	057	000501	2047	060570005	N	0	0	100	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000600	1026	060570006	N	0	0	100	-
06	057	000801	2064	060570008	N	0	0	0	-
06	057	000402	3030	060570004	N	0	0	0	-
06	057	000501	4005	060570005	N	8	15	0	-
06	057	000501	2044	060570005	N	11	64	100	64
06	057	000502	4004	060570005	N	1	2	0	-
06	057	000502	4002	060570005	N	51	108	100	108
06	057	000502	2010	060570005	N	15	42	100	42
06	057	000501	5006	060570005	N	4	5	0	-
06	057	000502	4011	060570005	N	0	0	0	-
06	057	000501	5020	060570005	N	22	56	0	-
06	057	000701	4040	060570007	N	0	0	100	-
06	057	000104	2011	060570001	N	2	3	100	3
06	057	000801	2105	060570008	N	19	40	0	-
06	057	000801	1046	060570008	N	1	2	0	-
06	057	000600	5004	060570006	N	0	0	0	-
06	057	000600	5000	060570006	N	11	26	0	-
06	057	000600	3038	060570006	N	2	6	0	-
06	057	000502	1014	060570005	N	0	0	0	-
06	057	000502	3002	060570005	N	22	61	0	-
06	057	000600	3025	060570006	N	13	21	100	21
06	057	000600	3021	060570006	N	42	103	100	103
06	057	000502	3010	060570005	N	14	16	100	16
06	057	000502	3031	060570005	N	0	0	0	-
06	057	000300	1021	060570003	N	3	4	0	-
06	057	000802	4079	060570008	N	6	7	100	7
06	057	000600	3029	060570006	N	1	0	0	-
06	057	000502	3049	060570005	N	3	6	0	-
06	057	000600	4002	060570006	N	4	7	100	7
06	057	000502	3051	060570005	N	0	0	0	-
06	057	000300	1048	060570003	N	0	0	0	-
06	057	000702	2032	060570007	N	23	46	10	5
06	057	000300	2001	060570003	N	0	0	0	-
06	057	000702	1007	060570007	N	101	203	80	162
06	057	000104	1000	060570001	N	16	43	100	43
06	057	000104	1004	060570001	N	29	66	100	66
06	057	000102	4006	060570001	N	11	19	100	19
06	057	000103	2008	060570001	N	7	15	0	-
06	057	000802	4072	060570008	N	1	3	100	3
06	057	000802	1054	060570008	N	0	0	0	-
06	057	000801	3078	060570008	N	0	0	0	-
06	057	000104	2029	060570001	N	17	25	100	25
06	057	000701	1010	060570007	N	16	27	50	14
06	057	000701	2150	060570007	N	0	0	0	-
06	057	000701	2224	060570007	N	20	49	100	49
06	057	000701	1027	060570007	N	0	0	0	-
06	057	000701	1022	060570007	N	2	3	0	-
06	057	000701	1024	060570007	N	0	0	0	-
06	057	000702	1034	060570007	N	4	7	0	-
06	057	000401	3028	060570004	N	0	0	0	-
06	057	000701	5016	060570007	N	0	0	0	-
06	057	000501	5014	060570005	N	0	0	0	-
06	057	000300	1019	060570003	N	1	0	0	-
06	057	000501	2019	060570005	N	0	0	100	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000402	2016	060570004	N	0	0	0	-
06	057	000501	2035	060570005	N	0	0	0	-
06	057	000502	1017	060570005	N	0	0	0	-
06	057	000802	2062	060570008	N	11	44	100	44
06	057	000200	1053	060570002	N	0	0	0	-
06	057	000600	3012	060570006	N	16	40	100	40
06	057	000104	2003	060570001	N	0	0	100	-
06	057	000801	2076	060570008	N	0	0	0	-
06	057	000701	6088	060570007	N	0	0	0	-
06	057	000701	1025	060570007	N	0	0	0	-
06	057	000802	2007	060570008	N	5	10	0	-
06	057	000501	2004	060570005	N	4	9	100	9
06	057	000600	5009	060570006	N	0	0	0	-
06	057	000103	6015	060570001	N	0	0	0	-
06	057	000701	3022	060570007	N	8	19	100	19
06	057	000105	3012	060570001	N	15	37	0	-
06	057	000402	4021	060570004	N	1	3	0	-
06	057	000702	2017	060570007	N	2	2	100	2
06	057	000102	3007	060570001	N	13	33	100	33
06	057	000402	2005	060570004	N	8	24	0	-
06	057	000801	1041	060570008	N	2	3	100	3
06	057	000802	4024	060570008	N	0	0	0	-
06	057	000200	2016	060570002	N	2	2	0	-
06	057	000501	3011	060570005	N	0	0	0	-
06	057	000801	2090	060570008	N	0	0	0	-
06	057	000801	3041	060570008	N	0	0	0	-
06	057	000502	4022	060570005	N	13	27	50	14
06	057	000402	3019	060570004	N	1	2	0	-
06	057	000702	1080	060570007	N	5	13	0	-
06	057	000300	2021	060570003	N	33	72	0	-
06	057	000702	2012	060570007	N	52	120	30	36
06	057	000300	2062	060570003	N	14	31	0	-
06	057	000104	1016	060570001	N	80	161	50	81
06	057	000702	2027	060570007	N	29	60	0	-
06	057	000702	1032	060570007	N	3	9	0	-
06	057	000702	2044	060570007	N	13	30	50	15
06	057	000702	2040	060570007	N	46	78	50	39
06	057	000102	2012	060570001	N	1	2	100	2
06	057	000702	2050	060570007	N	10	17	100	17
06	057	000102	2003	060570001	N	37	71	100	71
06	057	000104	2037	060570001	N	5	4	100	4
06	057	000102	3000	060570001	N	147	339	100	339
06	057	000102	3002	060570001	N	17	49	100	49
06	057	000300	1010	060570003	N	0	0	0	-
06	057	000102	1003	060570001	N	63	143	100	143
06	057	000402	3026	060570004	N	1	1	100	1
06	057	000502	4009	060570005	N	5	11	20	2
06	057	000300	1056	060570003	N	0	0	0	-
06	057	000300	1052	060570003	N	3	2	0	-
06	057	000402	4017	060570004	N	0	0	0	-
06	057	000402	3009	060570004	N	7	26	0	-
06	057	000402	4040	060570004	N	2	4	0	-
06	057	000701	1023	060570007	N	8	16	0	-
06	057	000701	5001	060570007	N	21	55	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000702	1070	060570007	N	10	12	100	12
06	057	000701	1042	060570007	N	20	58	0	-
06	057	000701	5020	060570007	N	5	9	0	-
06	057	000701	5006	060570007	N	0	0	0	-
06	057	000701	6040	060570007	N	12	26	0	-
06	057	000102	2024	060570001	N	0	0	0	-
06	057	000102	3009	060570001	N	3	6	0	-
06	057	000102	3008	060570001	N	159	344	50	172
06	057	000200	2008	060570002	N	3	5	0	-
06	057	000102	2031	060570001	N	10	26	100	26
06	057	000102	1013	060570001	N	25	55	100	55
06	057	000102	1012	060570001	N	66	135	100	135
06	057	000600	1033	060570006	N	2	2	0	-
06	057	000300	2033	060570003	N	2	5	0	-
06	057	000600	2021	060570006	N	0	0	0	-
06	057	000600	3000	060570006	N	232	499	100	499
06	057	000502	4013	060570005	N	143	296	80	237
06	057	000502	3026	060570005	N	0	0	0	-
06	057	000502	3055	060570005	N	0	0	100	-
06	057	000600	1019	060570006	N	0	0	0	-
06	057	000600	1007	060570006	N	2	0	100	-
06	057	000600	2010	060570006	N	0	0	0	-
06	057	000600	4003	060570006	N	0	0	0	-
06	057	000701	5053	060570007	N	2	4	0	-
06	057	000600	2030	060570006	N	0	0	0	-
06	057	000600	2029	060570006	N	0	0	100	-
06	057	000600	1040	060570006	N	0	0	0	-
06	057	000701	5014	060570007	N	3	6	0	-
06	057	000701	6051	060570007	N	6	14	100	14
06	057	000701	6042	060570007	N	5	9	20	2
06	057	000701	6028	060570007	N	1	1	0	-
06	057	000702	1040	060570007	N	0	0	100	-
06	057	000702	1067	060570007	N	2	3	50	2
06	057	000701	6105	060570007	N	43	83	50	42
06	057	000701	6098	060570007	N	15	23	0	-
06	057	000702	1059	060570007	N	11	15	0	-
06	057	000701	4053	060570007	N	0	0	0	-
06	057	000501	2048	060570005	N	0	0	100	-
06	057	000501	2046	060570005	N	0	0	100	-
06	057	000501	3027	060570005	N	0	0	0	-
06	057	000600	3035	060570006	N	5	9	100	9
06	057	000502	3013	060570005	N	27	60	0	-
06	057	000600	5018	060570006	N	45	75	0	-
06	057	000600	5041	060570006	N	84	162	0	-
06	057	000200	1022	060570002	N	39	83	0	-
06	057	000200	1002	060570002	N	3	8	0	-
06	057	000200	1003	060570002	N	2	3	0	-
06	057	000702	1084	060570007	N	0	0	0	-
06	057	000702	1079	060570007	N	15	32	50	16
06	057	000103	2005	060570001	N	83	184	0	-
06	057	000702	1092	060570007	N	23	42	0	-
06	057	000103	2006	060570001	N	0	0	0	-
06	057	000702	1089	060570007	N	0	0	0	-
06	057	000501	2042	060570005	N	17	31	100	31

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000701	5058	060570007	N	7	19	100	19
06	057	000103	7011	060570001	N	2	1	100	1
06	057	000600	4005	060570006	N	0	0	0	-
06	057	000501	1013	060570005	N	6	13	100	13
06	057	000103	5003	060570001	N	126	295	100	295
06	057	000200	2057	060570002	N	1	2	0	-
06	057	000200	2050	060570002	N	2	3	0	-
06	057	000300	2004	060570003	N	2	4	0	-
06	057	000701	6078	060570007	N	0	0	0	-
06	057	000104	1001	060570001	N	0	0	0	-
06	057	000900	1059	060570009	N	68	105	0	-
06	057	000801	3008	060570008	N	18	35	0	-
06	057	000801	2047	060570008	N	11	33	0	-
06	057	000801	3018	060570008	N	113	208	0	-
06	057	000402	4006	060570004	N	4	14	0	-
06	057	000900	2118	060570009	N	26	73	0	-
06	057	000401	3003	060570004	N	35	76	40	30
06	057	000401	3009	060570004	N	0	0	0	-
06	057	000200	2004	060570002	N	18	40	0	-
06	057	000200	2013	060570002	N	1	0	0	-
06	057	000200	1079	060570002	N	5	8	0	-
06	057	000200	2028	060570002	N	13	32	0	-
06	057	000105	3020	060570001	N	6	10	0	-
06	057	000200	2043	060570002	N	8	21	0	-
06	057	000502	3019	060570005	N	0	0	0	-
06	057	000802	4067	060570008	N	29	53	100	53
06	057	000701	4004	060570007	N	2	3	0	-
06	057	000501	5029	060570005	N	0	0	0	-
06	057	000701	1017	060570007	N	0	0	0	-
06	057	000701	1016	060570007	N	0	0	0	-
06	057	000501	3025	060570005	N	7	22	100	22
06	057	000402	2045	060570004	N	20	44	0	-
06	057	000701	5008	060570007	N	7	18	0	-
06	057	000802	1001	060570008	N	0	0	100	-
06	057	000801	2086	060570008	N	5	10	0	-
06	057	000801	2087	060570008	N	6	11	0	-
06	057	000801	3022	060570008	N	4	8	0	-
06	057	000801	3051	060570008	N	0	0	0	-
06	057	000801	3074	060570008	N	1	2	0	-
06	057	000801	3103	060570008	N	2	4	0	-
06	057	000801	3097	060570008	N	0	0	0	-
06	057	000801	3052	060570008	N	0	0	100	-
06	057	000701	2120	060570007	N	27	38	100	38
06	057	000802	3001	060570008	N	34	69	50	35
06	057	000701	3011	060570007	N	14	33	100	33
06	057	000900	2123	060570009	N	0	0	0	-
06	057	000200	2035	060570002	N	21	58	0	-
06	057	000801	2066	060570008	N	8	10	0	-
06	057	000801	2030	060570008	N	1	4	0	-
06	057	000801	1007	060570008	N	0	0	100	-
06	057	000801	1037	060570008	N	3	8	0	-
06	057	000900	2122	060570009	N	0	0	0	-
06	057	000801	1045	060570008	N	0	0	0	-
06	057	000801	3092	060570008	N	5	9	100	9



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000402	3017	060570004	N	24	58	0	-
06	057	000802	1024	060570008	N	2	0	100	-
06	057	000801	2106	060570008	N	0	0	0	-
06	057	000802	2033	060570008	N	13	31	100	31
06	057	000802	1019	060570008	N	34	68	0	-
06	057	000802	1039	060570008	N	14	26	0	-
06	057	000802	1049	060570008	N	16	63	0	-
06	057	000102	1015	060570001	N	2	3	100	3
06	057	000102	1018	060570001	N	1	2	100	2
06	057	000102	1016	060570001	N	16	30	100	30
06	057	000102	4013	060570001	N	17	35	100	35
06	057	000102	4014	060570001	N	51	113	100	113
06	057	000105	1006	060570001	N	0	0	0	-
06	057	000102	3026	060570001	N	7	22	100	22
06	057	000105	1009	060570001	N	0	0	0	-
06	057	000104	3019	060570001	N	6	22	100	22
06	057	000105	1013	060570001	N	0	0	0	-
06	057	000102	4008	060570001	N	8	12	100	12
06	057	000102	4007	060570001	N	19	37	100	37
06	057	000105	3011	060570001	N	6	16	0	-
06	057	000105	3010	060570001	N	51	122	0	-
06	057	000802	2053	060570008	N	88	170	40	68
06	057	000900	2107	060570009	N	0	0	0	-
06	057	000103	6000	060570001	N	52	123	0	-
06	057	000105	2008	060570001	N	10	25	0	-
06	057	000103	6005	060570001	N	207	503	100	503
06	057	000103	6011	060570001	N	50	152	100	152
06	057	000103	4002	060570001	N	50	102	100	102
06	057	000103	4004	060570001	N	54	119	100	119
06	057	000103	3011	060570001	N	44	127	0	-
06	057	000103	3016	060570001	N	14	23	0	-
06	057	000802	2019	060570008	N	0	0	0	-
06	057	000801	1048	060570008	N	13	29	100	29
06	057	000802	1037	060570008	N	20	35	0	-
06	057	000802	3004	060570008	N	9	13	30	4
06	057	000402	2026	060570004	N	59	169	0	-
06	057	000103	6014	060570001	N	0	0	0	-
06	057	000105	1003	060570001	N	0	0	0	-
06	057	000105	3005	060570001	N	0	0	0	-
06	057	000105	1015	060570001	N	2	5	100	5
06	057	000102	4004	060570001	N	17	40	100	40
06	057	000105	2009	060570001	N	4	6	0	-
06	057	000105	3037	060570001	N	0	0	0	-
06	057	000402	4030	060570004	N	11	23	0	-
06	057	000402	2055	060570004	N	10	20	0	-
06	057	000501	2003	060570005	N	27	61	100	61
06	057	000402	4029	060570004	N	0	0	0	-
06	057	000501	2002	060570005	N	0	0	0	-
06	057	000401	3026	060570004	N	57	118	100	118
06	057	000401	1001	060570004	N	0	0	0	-
06	057	000401	2000	060570004	N	315	541	100	541
06	057	000402	3015	060570004	N	17	34	0	-
06	057	000401	1010	060570004	N	0	0	0	-
06	057	000502	3023	060570005	N	2	7	100	7

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000501	4002	060570005	N	31	71	100	71
06	057	000402	3050	060570004	N	12	27	0	-
06	057	000300	1044	060570003	N	22	50	0	-
06	057	000600	1014	060570006	N	0	0	0	-
06	057	000802	3006	060570008	N	33	74	100	74
06	057	000402	2011	060570004	N	6	7	0	-
06	057	000402	2036	060570004	N	0	0	0	-
06	057	000402	2008	060570004	N	8	20	0	-
06	057	000501	1009	060570005	N	98	216	20	43
06	057	000200	2005	060570002	N	7	11	0	-
06	057	000103	5001	060570001	N	67	178	100	178
06	057	000102	4018	060570001	N	0	0	0	-
06	057	000701	2073	060570007	N	0	0	0	-
06	057	000104	1019	060570001	N	43	54	100	54
06	057	000402	3003	060570004	N	6	15	0	-
06	057	000401	2013	060570004	N	0	0	0	-
06	057	000200	2003	060570002	N	4	5	0	-
06	057	000402	4048	060570004	N	0	0	0	-
06	057	000402	3058	060570004	N	6	22	10	2
06	057	000802	4030	060570008	N	23	45	100	45
06	057	000802	3012	060570008	N	13	30	100	30
06	057	000802	4028	060570008	N	9	20	100	20
06	057	000802	4047	060570008	N	50	110	100	110
06	057	000501	2008	060570005	N	7	19	100	19
06	057	000701	3019	060570007	N	9	25	100	25
06	057	000802	3023	060570008	N	41	98	100	98
06	057	000701	3013	060570007	N	8	13	100	13
06	057	000701	3008	060570007	N	6	17	100	17
06	057	000104	2033	060570001	N	16	19	100	19
06	057	000702	1088	060570007	N	3	3	0	-
06	057	000402	3013	060570004	N	5	9	0	-
06	057	000200	1068	060570002	N	0	0	0	-
06	057	000501	1000	060570005	N	163	324	60	194
06	057	000900	2119	060570009	N	11	26	0	-
06	057	000501	2009	060570005	N	16	20	100	20
06	057	000600	1025	060570006	N	13	19	100	19
06	057	000502	4003	060570005	N	51	122	100	122
06	057	000501	3018	060570005	N	0	0	100	-
06	057	000502	4000	060570005	N	140	334	100	334
06	057	000501	2055	060570005	N	0	0	100	-
06	057	000501	5010	060570005	N	29	55	0	-
06	057	000502	2011	060570005	N	49	80	100	80
06	057	000501	5007	060570005	N	7	14	0	-
06	057	000501	5003	060570005	N	6	12	0	-
06	057	000502	2012	060570005	N	87	180	100	180
06	057	000701	4034	060570007	N	42	102	100	102
06	057	000501	5028	060570005	N	14	19	0	-
06	057	000600	3030	060570006	N	5	12	100	12
06	057	000102	3019	060570001	N	11	29	0	-
06	057	000600	2018	060570006	N	46	113	0	-
06	057	000502	4014	060570005	N	18	29	100	29
06	057	000600	5011	060570006	N	10	17	0	-
06	057	000600	5022	060570006	N	8	16	0	-
06	057	000600	5032	060570006	N	9	11	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000600	5024	060570006	N	37	65	0	-
06	057	000600	3039	060570006	N	0	0	0	-
06	057	000600	5038	060570006	N	66	132	0	-
06	057	000600	4013	060570006	N	111	253	0	-
06	057	000502	3035	060570005	N	0	0	0	-
06	057	000300	1031	060570003	N	3	9	0	-
06	057	000401	3023	060570004	N	0	0	0	-
06	057	000702	2011	060570007	N	3	6	0	-
06	057	000502	3024	060570005	N	26	45	20	9
06	057	000300	1030	060570003	N	3	8	100	8
06	057	000300	2012	060570003	N	12	19	100	19
06	057	000502	3050	060570005	N	0	0	0	-
06	057	000502	3040	060570005	N	0	0	0	-
06	057	000702	2001	060570007	N	38	66	20	13
06	057	000702	2002	060570007	N	1	3	0	-
06	057	000104	2013	060570001	N	30	56	100	56
06	057	000801	3055	060570008	N	2	2	0	-
06	057	000701	1020	060570007	N	6	15	0	-
06	057	000501	2014	060570005	N	10	15	100	15
06	057	000802	2017	060570008	N	87	192	0	-
06	057	000200	1073	060570002	N	0	0	0	-
06	057	000802	1023	060570008	N	37	59	100	59
06	057	000102	4009	060570001	N	0	0	100	-
06	057	000801	1031	060570008	N	0	0	0	-
06	057	000501	2034	060570005	N	10	12	100	12
06	057	000501	2020	060570005	N	0	0	100	-
06	057	000802	4074	060570008	N	6	7	100	7
06	057	000501	2039	060570005	N	6	8	100	8
06	057	000701	1052	060570007	N	4	8	0	-
06	057	000802	4064	060570008	N	0	0	100	-
06	057	000402	4024	060570004	N	17	33	70	23
06	057	000702	1108	060570007	N	2	6	0	-
06	057	000600	1004	060570006	N	0	0	100	-
06	057	000600	2035	060570006	N	6	8	100	8
06	057	000600	1000	060570006	N	0	0	0	-
06	057	000300	1018	060570003	N	0	0	0	-
06	057	000801	3079	060570008	N	1	4	0	-
06	057	000801	3080	060570008	N	2	4	0	-
06	057	000801	3060	060570008	N	2	5	0	-
06	057	000402	2014	060570004	N	0	0	0	-
06	057	000701	6046	060570007	N	5	12	0	-
06	057	000701	5049	060570007	N	4	6	0	-
06	057	000701	5041	060570007	N	7	16	100	16
06	057	000502	3047	060570005	N	0	0	0	-
06	057	000702	1013	060570007	N	28	62	50	31
06	057	000300	1063	060570003	N	5	15	0	-
06	057	000701	2065	060570007	N	1	0	0	-
06	057	000701	5044	060570007	N	12	31	100	31
06	057	000600	5039	060570006	N	10	22	0	-
06	057	000402	3000	060570004	N	0	0	0	-
06	057	000300	2035	060570003	N	2	3	0	-
06	057	000104	2019	060570001	N	35	85	100	85
06	057	000701	5035	060570007	N	25	61	0	-
06	057	000701	1005	060570007	N	0	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000801	2097	060570008	N	0	0	0	-
06	057	000801	3101	060570008	N	1	3	0	-
06	057	000501	3012	060570005	N	0	0	0	-
06	057	000701	2077	060570007	N	0	0	0	-
06	057	000801	1015	060570008	N	6	12	100	12
06	057	000801	3062	060570008	N	0	0	0	-
06	057	000402	2035	060570004	N	12	32	0	-
06	057	000402	3018	060570004	N	0	0	0	-
06	057	000300	2050	060570003	N	61	133	0	-
06	057	000702	1023	060570007	N	5	12	0	-
06	057	000702	2041	060570007	N	45	95	0	-
06	057	000104	2026	060570001	N	0	0	100	-
06	057	000104	1022	060570001	N	3	5	100	5
06	057	000104	2027	060570001	N	23	28	100	28
06	057	000102	1000	060570001	N	59	143	100	143
06	057	000102	2014	060570001	N	15	33	100	33
06	057	000102	1002	060570001	N	72	139	100	139
06	057	000801	1010	060570008	N	23	42	0	-
06	057	000900	2131	060570009	N	0	0	0	-
06	057	000802	4041	060570008	N	0	0	0	-
06	057	000402	3025	060570004	N	5	9	0	-
06	057	000300	1020	060570003	N	1	1	0	-
06	057	000300	1055	060570003	N	0	0	0	-
06	057	000402	4010	060570004	N	21	49	0	-
06	057	000402	4044	060570004	N	0	0	0	-
06	057	000402	4042	060570004	N	0	0	0	-
06	057	000402	2012	060570004	N	63	143	0	-
06	057	000701	4007	060570007	N	152	346	10	35
06	057	000701	4052	060570007	N	0	0	0	-
06	057	000702	1061	060570007	N	25	51	0	-
06	057	000701	5000	060570007	N	0	0	0	-
06	057	000701	1043	060570007	N	0	0	0	-
06	057	000701	1049	060570007	N	56	116	0	-
06	057	000701	1051	060570007	N	11	27	0	-
06	057	000701	5059	060570007	N	53	109	100	109
06	057	000702	1010	060570007	N	49	92	50	46
06	057	000701	6007	060570007	N	0	0	0	-
06	057	000102	2025	060570001	N	0	0	0	-
06	057	000300	2049	060570003	N	0	0	0	-
06	057	000104	3012	060570001	N	5	11	0	-
06	057	000103	2000	060570001	N	104	217	20	43
06	057	000802	4049	060570008	N	12	27	0	-
06	057	000200	2060	060570002	N	0	0	0	-
06	057	000702	2046	060570007	N	0	0	0	-
06	057	000104	2010	060570001	N	30	78	100	78
06	057	000300	1028	060570003	N	6	14	0	-
06	057	000600	3004	060570006	N	67	136	100	136
06	057	000702	1054	060570007	N	5	4	0	-
06	057	000300	2002	060570003	N	46	107	50	54
06	057	000502	3052	060570005	N	0	0	0	-
06	057	000802	4080	060570008	N	10	23	100	23
06	057	000802	4057	060570008	N	1	2	100	2
06	057	000701	3016	060570007	N	0	0	0	-
06	057	000701	3009	060570007	N	104	236	100	236

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000701	3027	060570007	N	4	5	100	5
06	057	000701	3036	060570007	N	7	17	0	-
06	057	000600	4001	060570006	N	46	86	20	17
06	057	000600	5034	060570006	N	1	1	100	1
06	057	000702	2007	060570007	N	0	0	0	-
06	057	000702	2057	060570007	N	0	0	0	-
06	057	000702	2033	060570007	N	29	59	100	59
06	057	000701	5032	060570007	N	4	7	0	-
06	057	000701	5013	060570007	N	1	1	0	-
06	057	000701	5027	060570007	N	1	2	0	-
06	057	000701	4037	060570007	N	0	0	100	-
06	057	000701	6096	060570007	N	6	14	100	14
06	057	000702	1044	060570007	N	73	132	0	-
06	057	000701	6110	060570007	N	1	2	0	-
06	057	000701	6094	060570007	N	18	35	50	18
06	057	000701	6099	060570007	N	15	31	0	-
06	057	000702	1046	060570007	N	0	0	0	-
06	057	000702	1087	060570007	N	3	6	0	-
06	057	000702	1098	060570007	N	8	12	0	-
06	057	000702	1083	060570007	N	2	6	0	-
06	057	000701	1047	060570007	N	3	2	0	-
06	057	000701	6054	060570007	N	0	0	0	-
06	057	000701	1050	060570007	N	3	9	0	-
06	057	000600	5012	060570006	N	0	0	0	-
06	057	000501	1003	060570005	N	44	97	0	-
06	057	000801	2102	060570008	N	6	10	100	10
06	057	000300	2039	060570003	N	1	4	0	-
06	057	000402	2047	060570004	N	0	0	0	-
06	057	000402	2039	060570004	N	0	0	0	-
06	057	000402	2050	060570004	N	0	0	0	-
06	057	000402	2040	060570004	N	46	111	0	-
06	057	000200	1007	060570002	N	0	0	0	-
06	057	000200	1030	060570002	N	0	0	0	-
06	057	000300	1050	060570003	N	10	31	0	-
06	057	000200	1045	060570002	N	18	36	0	-
06	057	000104	3003	060570001	N	96	146	50	73
06	057	000801	1032	060570008	N	30	67	30	20
06	057	000701	2222	060570007	N	66	137	100	137
06	057	000501	5024	060570005	N	1	1	0	-
06	057	000501	2052	060570005	N	81	169	100	169
06	057	000502	3007	060570005	N	157	229	100	229
06	057	000104	1005	060570001	N	1	5	100	5
06	057	000200	1060	060570002	N	0	0	0	-
06	057	000402	2068	060570004	N	0	0	0	-
06	057	000200	2031	060570002	N	1	2	0	-
06	057	000300	2003	060570003	N	0	0	0	-
06	057	000701	6079	060570007	N	0	0	0	-
06	057	000701	6077	060570007	N	4	9	100	9
06	057	000702	1106	060570007	N	1	4	0	-
06	057	000702	1045	060570007	N	0	0	0	-
06	057	000702	1097	060570007	N	2	5	0	-
06	057	000102	2021	060570001	N	8	16	100	16
06	057	000501	3000	060570005	N	10	23	100	23
06	057	000802	4069	060570008	N	36	56	100	56

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000801	2046	060570008	N	19	37	0	-
06	057	000402	4022	060570004	N	35	73	100	73
06	057	000401	1000	060570004	N	49	106	0	-
06	057	000401	3007	060570004	N	3	9	100	9
06	057	000401	3000	060570004	N	60	127	100	127
06	057	000200	1012	060570002	N	0	0	0	-
06	057	000600	2024	060570006	N	0	0	100	-
06	057	000600	2037	060570006	N	0	0	100	-
06	057	000502	3015	060570005	N	8	24	0	-
06	057	000402	1015	060570004	N	14	26	0	-
06	057	000801	2028	060570008	N	27	54	0	-
06	057	000701	1014	060570007	N	12	27	0	-
06	057	000801	3066	060570008	N	12	22	0	-
06	057	000502	3043	060570005	N	14	13	0	-
06	057	000701	5007	060570007	N	0	0	0	-
06	057	000701	5046	060570007	N	3	4	0	-
06	057	000801	2077	060570008	N	11	17	0	-
06	057	000801	2059	060570008	N	47	92	0	-
06	057	000801	3064	060570008	N	0	0	0	-
06	057	000801	3076	060570008	N	4	9	0	-
06	057	000801	3071	060570008	N	0	0	0	-
06	057	000701	2084	060570007	N	11	15	100	15
06	057	000801	3113	060570008	N	2	3	100	3
06	057	000701	2121	060570007	N	20	41	100	41
06	057	000701	2124	060570007	N	57	128	100	128
06	057	000200	2049	060570002	N	0	0	0	-
06	057	000801	2095	060570008	N	0	0	0	-
06	057	000801	2042	060570008	N	3	1	0	-
06	057	000701	2082	060570007	N	2	2	100	2
06	057	000801	1001	060570008	N	4	6	0	-
06	057	000801	1012	060570008	N	3	6	0	-
06	057	000801	1018	060570008	N	27	70	0	-
06	057	000802	4008	060570008	N	76	166	50	83
06	057	000801	3093	060570008	N	9	16	100	16
06	057	000802	1026	060570008	N	14	16	10	2
06	057	000802	1027	060570008	N	18	32	0	-
06	057	000802	1046	060570008	N	11	24	0	-
06	057	000802	1043	060570008	N	1	1	0	-
06	057	000802	1053	060570008	N	0	0	0	-
06	057	000802	1035	060570008	N	24	49	100	49
06	057	000802	2030	060570008	N	23	44	0	-
06	057	000802	2027	060570008	N	0	0	0	-
06	057	000802	2008	060570008	N	0	0	0	-
06	057	000102	4011	060570001	N	2	7	0	-
06	057	000102	1019	060570001	N	6	12	100	12
06	057	000105	1020	060570001	N	21	44	50	22
06	057	000103	2011	060570001	N	9	11	0	-
06	057	000103	1002	060570001	N	1	2	0	-
06	057	000802	2004	060570008	N	0	0	0	-
06	057	000802	3007	060570008	N	10	24	0	-
06	057	000802	3002	060570008	N	7	13	0	-
06	057	000802	4026	060570008	N	44	118	50	59
06	057	000802	4020	060570008	N	10	25	0	-
06	057	000801	1026	060570008	N	3	7	0	-



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000105	2016	060570001	N	4	8	0	-
06	057	000103	1005	060570001	N	142	356	50	178
06	057	000105	1029	060570001	N	4	12	0	-
06	057	000103	1004	060570001	N	25	76	0	-
06	057	000105	1035	060570001	N	4	11	0	-
06	057	000105	2011	060570001	N	16	31	0	-
06	057	000103	1006	060570001	N	12	21	0	-
06	057	000103	3008	060570001	N	0	0	100	-
06	057	000103	4006	060570001	N	22	43	100	43
06	057	000103	3003	060570001	N	4	10	0	-
06	057	000701	2030	060570007	N	0	0	0	-
06	057	000802	4000	060570008	N	0	0	0	-
06	057	000801	1028	060570008	N	5	3	100	3
06	057	000801	1047	060570008	N	9	16	50	8
06	057	000801	1009	060570008	N	0	0	0	-
06	057	000104	2032	060570001	N	19	27	100	27
06	057	000402	2041	060570004	N	31	71	0	-
06	057	000105	3002	060570001	N	10	28	0	-
06	057	000105	1028	060570001	N	1	1	0	-
06	057	000103	4000	060570001	N	82	189	100	189
06	057	000402	2056	060570004	N	19	42	0	-
06	057	000200	1056	060570002	N	0	0	0	-
06	057	000402	2061	060570004	N	0	0	0	-
06	057	000401	3001	060570004	N	20	41	100	41
06	057	000300	1023	060570003	N	16	32	0	-
06	057	000300	1009	060570003	N	0	0	0	-
06	057	000801	3070	060570008	N	13	30	0	-
06	057	000802	4059	060570008	N	18	31	100	31
06	057	000402	3059	060570004	N	1	5	0	-
06	057	000701	2155	060570007	N	10	17	100	17
06	057	000401	4003	060570004	N	239	432	100	432
06	057	000300	1003	060570003	N	0	0	0	-
06	057	000402	3040	060570004	N	7	16	0	-
06	057	000300	1067	060570003	N	0	0	0	-
06	057	000402	2024	060570004	N	3	7	0	-
06	057	000701	1046	060570007	N	1	2	0	-
06	057	000701	2221	060570007	N	10	25	100	25
06	057	000801	3107	060570008	N	10	19	100	19
06	057	000401	3022	060570004	N	0	0	0	-
06	057	000600	3010	060570006	N	0	0	0	-
06	057	000402	2049	060570004	N	0	0	0	-
06	057	000200	1029	060570002	N	0	0	0	-
06	057	000402	3034	060570004	N	0	0	0	-
06	057	000104	1027	060570001	N	5	6	100	6
06	057	000701	5023	060570007	N	32	70	0	-
06	057	000702	1000	060570007	N	22	38	0	-
06	057	000802	4078	060570008	N	13	29	100	29
06	057	000200	1024	060570002	N	6	16	0	-
06	057	000402	4051	060570004	N	0	0	0	-
06	057	000802	4027	060570008	N	9	19	100	19
06	057	000501	2012	060570005	N	12	25	100	25
06	057	000802	3017	060570008	N	1	4	100	4
06	057	000402	3023	060570004	N	10	17	0	-
06	057	000600	1006	060570006	N	0	0	100	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000501	3008	060570005	N	3	5	100	5
06	057	000501	2023	060570005	N	11	26	100	26
06	057	000501	2030	060570005	N	17	45	100	45
06	057	000701	5060	060570007	N	5	14	100	14
06	057	000402	4011	060570004	N	16	41	0	-
06	057	000104	1028	060570001	N	1	0	100	-
06	057	000900	2126	060570009	N	59	165	0	-
06	057	000402	3036	060570004	N	9	17	0	-
06	057	000502	2001	060570005	N	11	2	50	1
06	057	000502	4001	060570005	N	13	32	100	32
06	057	000600	2001	060570006	N	2	9	50	5
06	057	000501	5009	060570005	N	5	11	0	-
06	057	000600	1039	060570006	N	0	0	100	-
06	057	000501	1006	060570005	N	7	24	0	-
06	057	000701	4036	060570007	N	0	0	0	-
06	057	000105	1030	060570001	N	0	0	0	-
06	057	000502	4021	060570005	N	1	2	0	-
06	057	000600	2033	060570006	N	2	2	0	-
06	057	000200	1008	060570002	N	0	0	0	-
06	057	000105	2015	060570001	N	1	6	0	-
06	057	000105	1000	060570001	N	15	47	0	-
06	057	000502	2006	060570005	N	0	0	0	-
06	057	000600	2017	060570006	N	0	0	0	-
06	057	000701	4046	060570007	N	0	0	100	-
06	057	000502	2007	060570005	N	0	0	0	-
06	057	000600	5010	060570006	N	27	73	0	-
06	057	000600	2027	060570006	N	5	10	100	10
06	057	000600	3023	060570006	N	17	42	100	42
06	057	000600	5042	060570006	N	30	47	0	-
06	057	000600	3024	060570006	N	0	0	100	-
06	057	000600	5019	060570006	N	22	42	0	-
06	057	000300	1016	060570003	N	0	0	0	-
06	057	000600	3031	060570006	N	0	0	0	-
06	057	000300	2061	060570003	N	1	1	0	-
06	057	000802	2055	060570008	N	10	17	0	-
06	057	000701	5043	060570007	N	16	35	100	35
06	057	000300	1049	060570003	N	1	4	0	-
06	057	000600	3019	060570006	N	1	4	100	4
06	057	000300	2014	060570003	N	23	50	100	50
06	057	000702	2015	060570007	N	1	2	0	-
06	057	000702	2058	060570007	N	1	2	0	-
06	057	000801	3117	060570008	N	6	7	0	-
06	057	000600	2005	060570006	N	0	0	100	-
06	057	000900	2070	060570009	N	0	0	0	-
06	057	000701	3034	060570007	N	3	10	0	-
06	057	000701	4029	060570007	N	3	14	0	-
06	057	000701	1030	060570007	N	7	18	0	-
06	057	000801	2083	060570008	N	7	12	0	-
06	057	000402	4038	060570004	N	0	0	0	-
06	057	000801	2027	060570008	N	3	2	0	-
06	057	000801	2051	060570008	N	1	0	0	-
06	057	000501	2032	060570005	N	3	3	100	3
06	057	000501	2026	060570005	N	12	16	100	16
06	057	000501	2036	060570005	N	10	10	100	10

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000502	3057	060570005	N	0	0	0	-
06	057	000402	4023	060570004	N	1	3	0	-
06	057	000801	2099	060570008	N	0	0	0	-
06	057	000600	1002	060570006	N	0	0	100	-
06	057	000402	2006	060570004	N	8	17	0	-
06	057	000103	6010	060570001	N	0	0	0	-
06	057	000802	1042	060570008	N	0	0	0	-
06	057	000103	6007	060570001	N	6	12	100	12
06	057	000701	2146	060570007	N	3	8	100	8
06	057	000801	2070	060570008	N	0	0	0	-
06	057	000802	1008	060570008	N	0	0	0	-
06	057	000502	3048	060570005	N	1	1	100	1
06	057	000300	2042	060570003	N	6	13	0	-
06	057	000702	1042	060570007	N	4	9	0	-
06	057	000501	3013	060570005	N	60	123	100	123
06	057	000300	2018	060570003	N	1	1	100	1
06	057	000502	3046	060570005	N	1	2	0	-
06	057	000600	1005	060570006	N	0	0	100	-
06	057	000200	1061	060570002	N	0	0	0	-
06	057	000801	1020	060570008	N	0	0	0	-
06	057	000402	3053	060570004	N	0	0	0	-
06	057	000300	1015	060570003	N	2	2	0	-
06	057	000104	2036	060570001	N	28	43	100	43
06	057	000702	2013	060570007	N	1	2	100	2
06	057	000502	3025	060570005	N	0	0	0	-
06	057	000701	2118	060570007	N	32	59	100	59
06	057	000200	1051	060570002	N	0	0	0	-
06	057	000801	2091	060570008	N	2	8	0	-
06	057	000105	3034	060570001	N	4	9	0	-
06	057	000702	1052	060570007	N	0	0	0	-
06	057	000300	2047	060570003	N	65	150	0	-
06	057	000104	2008	060570001	N	0	0	100	-
06	057	000104	2023	060570001	N	27	29	100	29
06	057	000702	2042	060570007	N	7	8	100	8
06	057	000702	1056	060570007	N	0	0	0	-
06	057	000102	2022	060570001	N	40	91	100	91
06	057	000802	4037	060570008	N	5	12	0	-
06	057	000502	4012	060570005	N	0	0	0	-
06	057	000300	1034	060570003	N	0	0	0	-
06	057	000300	1057	060570003	N	0	0	0	-
06	057	000402	4014	060570004	N	10	25	0	-
06	057	000402	4013	060570004	N	1	2	0	-
06	057	000401	1011	060570004	N	1	3	0	-
06	057	000401	1017	060570004	N	0	0	0	-
06	057	000401	1012	060570004	N	3	5	0	-
06	057	000402	4045	060570004	N	3	8	0	-
06	057	000701	1035	060570007	N	3	8	0	-
06	057	000701	1055	060570007	N	14	27	0	-
06	057	000701	1056	060570007	N	30	74	0	-
06	057	000701	5024	060570007	N	1	3	0	-
06	057	000701	5028	060570007	N	11	31	0	-
06	057	000701	5051	060570007	N	40	82	0	-
06	057	000701	1062	060570007	N	13	29	0	-
06	057	000702	1004	060570007	N	58	142	100	142

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000102	1007	060570001	N	5	14	100	14
06	057	000801	1023	060570008	N	0	0	0	-
06	057	000200	2011	060570002	N	1	0	0	-
06	057	000102	1005	060570001	N	140	273	100	273
06	057	000102	3020	060570001	N	23	67	0	-
06	057	000102	2030	060570001	N	19	50	100	50
06	057	000102	4001	060570001	N	241	556	70	389
06	057	000501	5022	060570005	N	0	0	0	-
06	057	000501	2056	060570005	N	0	0	100	-
06	057	000104	3001	060570001	N	30	72	100	72
06	057	000502	3008	060570005	N	17	16	100	16
06	057	000200	2032	060570002	N	95	256	0	-
06	057	000402	2021	060570004	N	23	56	0	-
06	057	000402	2038	060570004	N	0	0	0	-
06	057	000802	4045	060570008	N	7	13	100	13
06	057	000802	4032	060570008	N	11	16	100	16
06	057	000501	2013	060570005	N	22	52	100	52
06	057	000600	1001	060570006	N	0	0	0	-
06	057	000600	2031	060570006	N	1	6	0	-
06	057	000702	2018	060570007	N	4	8	0	-
06	057	000702	2006	060570007	N	16	28	20	6
06	057	000702	2052	060570007	N	11	23	100	23
06	057	000702	2000	060570007	N	9	21	0	-
06	057	000701	4032	060570007	N	0	0	100	-
06	057	000701	4042	060570007	N	0	0	100	-
06	057	000701	1058	060570007	N	9	12	0	-
06	057	000701	6071	060570007	N	1	2	100	2
06	057	000702	1030	060570007	N	3	7	0	-
06	057	000702	1041	060570007	N	1	3	0	-
06	057	000701	6108	060570007	N	72	123	20	25
06	057	000702	1068	060570007	N	1	3	100	3
06	057	000702	1073	060570007	N	5	12	100	12
06	057	000702	1072	060570007	N	0	0	100	-
06	057	000702	1086	060570007	N	13	30	0	-
06	057	000701	3007	060570007	N	1	1	0	-
06	057	000701	6045	060570007	N	1	3	0	-
06	057	000600	2032	060570006	N	0	0	0	-
06	057	000600	5002	060570006	N	29	56	0	-
06	057	000501	3001	060570005	N	0	0	0	-
06	057	000502	3003	060570005	N	15	39	50	20
06	057	000502	3011	060570005	N	11	17	0	-
06	057	000600	5040	060570006	N	0	0	0	-
06	057	000501	2017	060570005	N	14	24	100	24
06	057	000402	2060	060570004	N	0	0	0	-
06	057	000402	2059	060570004	N	0	0	0	-
06	057	000200	1004	060570002	N	7	16	0	-
06	057	000200	2046	060570002	N	6	10	0	-
06	057	000702	1020	060570007	N	0	0	0	-
06	057	000701	6053	060570007	N	6	13	100	13
06	057	000701	6109	060570007	N	4	7	0	-
06	057	000702	1063	060570007	N	0	0	0	-
06	057	000702	1036	060570007	N	10	19	0	-
06	057	000801	3118	060570008	N	0	0	0	-
06	057	000502	2009	060570005	N	6	14	60	8

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000501	5012	060570005	N	66	147	0	-
06	057	000502	1011	060570005	N	84	164	0	-
06	057	000200	1054	060570002	N	0	0	0	-
06	057	000200	1058	060570002	N	6	15	0	-
06	057	000402	2067	060570004	N	0	0	0	-
06	057	000200	1010	060570002	N	0	0	0	-
06	057	000200	1077	060570002	N	47	122	0	-
06	057	000300	2053	060570003	N	2	7	0	-
06	057	000300	2056	060570003	N	1	0	0	-
06	057	000801	2101	060570008	N	85	167	30	50
06	057	000702	1038	060570007	N	4	12	0	-
06	057	000702	1099	060570007	N	1	2	0	-
06	057	000702	1094	060570007	N	0	0	0	-
06	057	000104	2016	060570001	N	22	43	100	43
06	057	000104	1013	060570001	N	43	92	80	74
06	057	000300	2022	060570003	N	13	37	0	-
06	057	000802	4073	060570008	N	0	0	100	-
06	057	000801	2014	060570008	N	54	103	0	-
06	057	000801	2065	060570008	N	14	116	0	-
06	057	000900	2121	060570009	N	4	9	0	-
06	057	000402	4003	060570004	N	0	0	0	-
06	057	000200	1074	060570002	N	78	164	0	-
06	057	000200	1076	060570002	N	2	2	0	-
06	057	000200	2018	060570002	N	0	0	0	-
06	057	000200	2027	060570002	N	9	17	0	-
06	057	000200	2038	060570002	N	9	19	0	-
06	057	000802	4068	060570008	N	34	58	100	58
06	057	000801	2035	060570008	N	62	123	50	62
06	057	000402	3012	060570004	N	128	274	0	-
06	057	000701	4019	060570007	N	2	2	0	-
06	057	000402	3046	060570004	N	11	24	0	-
06	057	000401	4009	060570004	N	0	0	0	-
06	057	000701	5034	060570007	N	1	2	0	-
06	057	000103	7009	060570001	N	4	8	100	8
06	057	000801	2038	060570008	N	45	100	0	-
06	057	000801	2096	060570008	N	12	14	0	-
06	057	000701	2072	060570007	N	0	0	0	-
06	057	000801	3019	060570008	N	6	13	0	-
06	057	000801	3073	060570008	N	5	11	0	-
06	057	000801	3056	060570008	N	0	0	0	-
06	057	000701	2122	060570007	N	94	217	40	87
06	057	000900	2106	060570009	N	0	0	0	-
06	057	000401	3025	060570004	N	0	0	100	-
06	057	000801	1000	060570008	N	13	36	0	-
06	057	000200	1046	060570002	N	0	0	0	-
06	057	000200	2051	060570002	N	0	0	0	-
06	057	000801	2021	060570008	N	0	0	0	-
06	057	000801	3081	060570008	N	39	96	80	77
06	057	000801	3037	060570008	N	0	0	0	-
06	057	000801	2062	060570008	N	6	13	0	-
06	057	000801	2043	060570008	N	0	0	0	-
06	057	000801	1017	060570008	N	9	20	0	-
06	057	000802	1018	060570008	N	6	7	0	-
06	057	000802	4010	060570008	N	0	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000802	2026	060570008	N	4	18	50	9
06	057	000802	2005	060570008	N	63	107	0	-
06	057	000802	2047	060570008	N	56	99	10	10
06	057	000102	3027	060570001	N	12	25	100	25
06	057	000102	4015	060570001	N	17	46	100	46
06	057	000105	2000	060570001	N	4	4	100	4
06	057	000105	1016	060570001	N	1	9	100	9
06	057	000104	3015	060570001	N	13	36	100	36
06	057	000105	3004	060570001	N	14	29	0	-
06	057	000103	2003	060570001	N	15	38	0	-
06	057	000105	3014	060570001	N	7	15	0	-
06	057	000103	2015	060570001	N	62	149	0	-
06	057	000105	3015	060570001	N	0	0	0	-
06	057	000802	2043	060570008	N	52	119	0	-
06	057	000802	4036	060570008	N	9	15	0	-
06	057	000802	4025	060570008	N	37	81	100	81
06	057	000802	4042	060570008	N	1	2	0	-
06	057	000802	4076	060570008	N	0	0	100	-
06	057	000802	4023	060570008	N	0	0	0	-
06	057	000502	4016	060570005	N	2	3	0	-
06	057	000105	2018	060570001	N	1	2	0	-
06	057	000103	7007	060570001	N	6	12	100	12
06	057	000103	3010	060570001	N	23	64	0	-
06	057	000103	6012	060570001	N	1	2	0	-
06	057	000702	2020	060570007	N	0	0	0	-
06	057	000802	2031	060570008	N	137	263	40	105
06	057	000900	2128	060570009	N	4	6	0	-
06	057	000102	4019	060570001	N	0	0	100	-
06	057	000200	2015	060570002	N	33	72	0	-
06	057	000102	4012	060570001	N	0	0	0	-
06	057	000102	4010	060570001	N	17	28	100	28
06	057	000103	1009	060570001	N	3	7	100	7
06	057	000402	2057	060570004	N	0	0	0	-
06	057	000402	2030	060570004	N	0	0	0	-
06	057	000402	4027	060570004	N	0	0	0	-
06	057	000401	3018	060570004	N	81	131	100	131
06	057	000402	3006	060570004	N	10	21	0	-
06	057	000402	3022	060570004	N	33	73	0	-
06	057	000401	2001	060570004	N	68	120	100	120
06	057	000502	3056	060570005	N	0	0	0	-
06	057	000600	1023	060570006	N	247	347	100	347
06	057	000501	5013	060570005	N	2	5	0	-
06	057	000200	2059	060570002	N	5	10	0	-
06	057	000104	2017	060570001	N	7	22	100	22
06	057	000701	2156	060570007	N	2	7	0	-
06	057	000300	1004	060570003	N	6	13	0	-
06	057	000402	4037	060570004	N	4	15	100	15
06	057	000402	2033	060570004	N	5	10	0	-
06	057	000300	2007	060570003	N	141	303	100	303
06	057	000402	2022	060570004	N	2	5	0	-
06	057	000402	2048	060570004	N	0	0	0	-
06	057	000200	1032	060570002	N	0	0	0	-
06	057	000200	1020	060570002	N	0	0	0	-
06	057	000200	1014	060570002	N	0	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000801	1021	060570008	N	0	0	0	-
06	057	000801	3063	060570008	N	0	0	0	-
06	057	000702	1077	060570007	N	12	34	10	3
06	057	000200	2006	060570002	N	0	0	0	-
06	057	000802	3016	060570008	N	0	0	0	-
06	057	000402	3002	060570004	N	5	6	0	-
06	057	000701	3020	060570007	N	3	4	100	4
06	057	000701	3010	060570007	N	8	11	100	11
06	057	000501	2027	060570005	N	1	1	100	1
06	057	000600	1008	060570006	N	0	0	100	-
06	057	000701	2081	060570007	N	56	104	100	104
06	057	000104	1029	060570001	N	4	5	100	5
06	057	000401	2014	060570004	N	0	0	100	-
06	057	000801	1034	060570008	N	3	4	0	-
06	057	000802	2060	060570008	N	8	17	0	-
06	057	000801	3057	060570008	N	2	8	100	8
06	057	000501	1002	060570005	N	11	16	100	16
06	057	000501	3006	060570005	N	10	26	100	26
06	057	000501	2051	060570005	N	6	14	100	14
06	057	000501	2053	060570005	N	7	17	100	17
06	057	000501	5005	060570005	N	3	10	0	-
06	057	000701	4051	060570007	N	0	0	100	-
06	057	000501	5018	060570005	N	9	12	0	-
06	057	000502	2008	060570005	N	10	21	0	-
06	057	000300	2051	060570003	N	1	2	0	-
06	057	000502	3004	060570005	N	89	208	50	104
06	057	000502	1005	060570005	N	30	54	0	-
06	057	000502	1008	060570005	N	18	47	0	-
06	057	000600	5016	060570006	N	9	15	0	-
06	057	000600	5006	060570006	N	7	14	0	-
06	057	000502	3000	060570005	N	5	10	0	-
06	057	000701	5039	060570007	N	14	29	100	29
06	057	000600	5020	060570006	N	26	45	0	-
06	057	000502	1015	060570005	N	38	106	0	-
06	057	000600	3006	060570006	N	7	18	100	18
06	057	000502	1016	060570005	N	0	0	0	-
06	057	000600	5037	060570006	N	1	1	100	1
06	057	000802	2041	060570008	N	0	0	0	-
06	057	000501	2040	060570005	N	0	0	100	-
06	057	000501	2054	060570005	N	1	3	100	3
06	057	000502	3039	060570005	N	0	0	0	-
06	057	000600	3007	060570006	N	37	93	100	93
06	057	000600	3018	060570006	N	0	0	100	-
06	057	000502	3059	060570005	N	17	24	100	24
06	057	000702	2047	060570007	N	4	9	0	-
06	057	000300	2017	060570003	N	1	6	100	6
06	057	000502	3045	060570005	N	32	78	30	23
06	057	000300	2023	060570003	N	2	7	0	-
06	057	000502	3036	060570005	N	14	22	0	-
06	057	000701	1019	060570007	N	2	11	0	-
06	057	000702	1017	060570007	N	0	0	100	-
06	057	000401	3029	060570004	N	0	0	0	-
06	057	000300	1033	060570003	N	0	0	0	-
06	057	000802	4071	060570008	N	25	44	100	44



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	057	000401	4011	060570004	N	0	0	0	-
06	057	000401	3030	060570004	N	0	0	100	-
06	057	000501	2043	060570005	N	0	0	0	-
06	057	000402	2013	060570004	N	0	0	0	-
06	057	000300	1005	060570003	N	4	6	0	-
06	057	000501	2037	060570005	N	148	133	100	133
06	057	000802	2049	060570008	N	1	5	0	-
06	057	000701	4014	060570007	N	1	2	0	-
06	057	000200	2023	060570002	N	2	8	0	-
06	057	000103	6008	060570001	N	4	11	0	-
06	057	000200	1026	060570002	N	3	5	0	-
06	057	000801	3049	060570008	N	10	19	0	-
06	057	000801	3105	060570008	N	1	4	0	-
06	057	000701	5003	060570007	N	4	12	0	-
06	057	000801	1036	060570008	N	0	0	0	-
06	057	000300	2020	060570003	N	3	5	0	-
06	057	000701	6049	060570007	N	5	11	100	11
06	057	000701	1012	060570007	N	3	4	0	-
06	057	000702	1039	060570007	N	3	6	0	-
06	057	000701	6081	060570007	N	0	0	0	-
06	057	000105	3001	060570001	N	7	15	0	-
06	057	000702	1011	060570007	N	7	22	50	11
06	057	000402	4019	060570004	N	1	0	0	-
06	057	000200	2022	060570002	N	0	0	0	-
06	057	000801	3085	060570008	N	11	24	0	-
06	057	000103	2009	060570001	N	0	0	0	-
06	057	000402	2065	060570004	N	0	0	0	-
06	057	000802	2002	060570008	N	0	0	0	-
06	057	000104	2035	060570001	N	21	27	100	27
06	057	000801	1039	060570008	N	4	11	100	11
06	057	000702	1051	060570007	N	9	18	0	-
06	057	000702	1053	060570007	N	0	0	0	-
06	057	000502	4015	060570005	N	11	27	100	27
06	057	000802	4014	060570008	N	3	8	0	-
06	057	000701	5062	060570007	N	0	0	0	-
06	057	000801	3026	060570008	N	0	0	0	-
06	057	000801	3110	060570008	N	20	41	0	-
06	057	000801	3045	060570008	N	0	0	0	-
06	061	021501	2051	060610215	N	18	30	0	-
06	061	021304	1001	060610213	N	12	31	0	-
06	061	021604	2059	060610216	N	15	37	0	-
06	061	021604	1041	060610216	N	0	0	0	-
06	061	021901	1007	060610219	N	2	7	0	-
06	061	021304	4021	060610213	N	0	0	0	-
06	061	021604	1040	060610216	N	5	9	0	-
06	061	021604	2040	060610216	N	35	90	30	27
06	061	021603	2004	060610216	N	56	132	100	132
06	061	021801	3010	060610218	N	74	193	0	-
06	061	021304	1018	060610213	N	1	2	0	-
06	061	021304	1067	060610213	N	0	0	0	-
06	061	021304	1005	060610213	N	17	39	0	-
06	061	021304	1020	060610213	N	13	32	0	-
06	061	021304	3030	060610213	N	12	20	0	-
06	061	020501	3003	060610205	N	1	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021304	1023	060610213	N	0	0	0	-
06	061	021604	2000	060610216	N	11	30	0	-
06	061	021304	1002	060610213	N	0	0	0	-
06	061	021604	2051	060610216	N	10	27	0	-
06	061	021802	1013	060610218	N	24	52	80	42
06	061	021802	1040	060610218	N	0	0	100	-
06	061	020501	1023	060610205	N	13	35	0	-
06	061	021304	2027	060610213	N	11	17	0	-
06	061	021304	4002	060610213	N	0	0	0	-
06	061	023400	1001	060610234	N	0	0	0	-
06	061	021604	1017	060610216	N	33	82	0	-
06	061	021304	2031	060610213	N	25	65	0	-
06	061	021304	3018	060610213	N	56	152	0	-
06	061	021603	1012	060610216	N	118	136	100	136
06	061	020501	1025	060610205	N	1	2	0	-
06	061	021401	2000	060610214	N	53	126	0	-
06	061	021401	2011	060610214	N	6	23	0	-
06	061	023700	2011	060610237	N	59	104	0	-
06	061	021304	2019	060610213	N	0	0	0	-
06	061	021604	1049	060610216	N	11	28	0	-
06	061	022002	1000	060610220	N	0	0	0	-
06	061	022013	3124	060610220	N	0	0	0	-
06	061	021802	2036	060610218	N	4	7	100	7
06	061	023700	1017	060610237	N	45	66	0	-
06	061	021802	1025	060610218	N	19	35	50	18
06	061	021604	2035	060610216	N	0	0	0	-
06	061	021604	1013	060610216	N	0	0	0	-
06	061	021304	3013	060610213	N	1	1	0	-
06	061	021604	1044	060610216	N	3	6	0	-
06	061	020501	1003	060610205	N	1	2	0	-
06	061	021801	4019	060610218	N	1	4	0	-
06	061	021501	1012	060610215	N	1	2	0	-
06	061	021603	1016	060610216	N	0	0	100	-
06	061	021603	2000	060610216	N	140	385	100	385
06	061	021603	1003	060610216	N	12	15	100	15
06	061	021603	1020	060610216	N	12	27	100	27
06	061	021501	2014	060610215	N	0	0	100	-
06	061	021501	2008	060610215	N	0	0	0	-
06	061	021501	2038	060610215	N	1	2	100	2
06	061	021501	2037	060610215	N	15	42	100	42
06	061	021501	3009	060610215	N	19	45	10	5
06	061	021501	2059	060610215	N	92	189	70	132
06	061	021501	2035	060610215	N	61	120	100	120
06	061	021801	3006	060610218	N	2	5	0	-
06	061	021304	3044	060610213	N	0	0	0	-
06	061	021604	1022	060610216	N	18	46	0	-
06	061	021802	2027	060610218	N	0	0	0	-
06	061	023800	1019	060610238	N	20	29	0	-
06	061	023800	1047	060610238	N	26	44	0	-
06	061	021501	2070	060610215	N	2	3	0	-
06	061	022013	3133	060610220	N	4	11	0	-
06	061	021501	3029	060610215	N	3	9	0	-
06	061	022013	3121	060610220	N	0	0	0	-
06	061	021501	1023	060610215	N	0	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	023700	2005	060610237	N	0	0	0	-
06	061	021501	3021	060610215	N	17	33	0	-
06	061	021902	1007	060610219	N	9	18	0	-
06	061	023700	2023	060610237	N	0	0	0	-
06	061	021304	3002	060610213	N	0	0	0	-
06	061	023800	1053	060610238	N	18	32	0	-
06	061	023800	1008	060610238	N	21	26	0	-
06	061	023700	1001	060610237	N	36	55	0	-
06	061	021801	3004	060610218	N	12	24	0	-
06	061	021801	3007	060610218	N	6	18	0	-
06	061	023800	1037	060610238	N	9	15	0	-
06	061	021204	1005	060610212	N	1	3	0	-
06	061	021501	1007	060610215	N	0	0	0	-
06	061	021604	2069	060610216	N	3	5	50	3
06	061	021604	2063	060610216	N	1	2	0	-
06	061	020501	1028	060610205	N	9	17	0	-
06	061	020501	3002	060610205	N	7	19	0	-
06	061	021604	2042	060610216	N	0	0	0	-
06	061	021304	1003	060610213	N	0	0	0	-
06	061	021502	1041	060610215	N	0	0	100	-
06	061	021304	1082	060610213	N	0	0	0	-
06	061	021901	1001	060610219	N	15	32	0	-
06	061	021902	1020	060610219	N	57	118	0	-
06	061	021604	2058	060610216	N	41	116	0	-
06	061	021501	2011	060610215	N	46	198	60	119
06	061	020501	1011	060610205	N	0	0	0	-
06	061	020501	1031	060610205	N	0	0	0	-
06	061	021501	3037	060610215	N	3	5	0	-
06	061	021801	4005	060610218	N	0	0	0	-
06	061	021604	2006	060610216	N	0	0	0	-
06	061	021304	1010	060610213	N	0	0	0	-
06	061	021902	2035	060610219	N	6	14	0	-
06	061	021801	4001	060610218	N	1	4	0	-
06	061	021604	2011	060610216	N	0	0	0	-
06	061	021801	4003	060610218	N	4	7	0	-
06	061	021304	4005	060610213	N	0	0	0	-
06	061	021902	2000	060610219	N	0	0	0	-
06	061	021304	2034	060610213	N	5	14	0	-
06	061	023400	1000	060610234	N	0	0	0	-
06	061	021304	4007	060610213	N	37	98	0	-
06	061	021501	1018	060610215	N	10	27	0	-
06	061	021603	1018	060610216	N	15	36	100	36
06	061	021304	4020	060610213	N	0	0	0	-
06	061	021304	4008	060610213	N	6	18	0	-
06	061	023800	1000	060610238	N	15	41	0	-
06	061	021304	1084	060610213	N	14	29	0	-
06	061	021604	1053	060610216	N	6	13	0	-
06	061	021801	3021	060610218	N	11	27	0	-
06	061	021604	1032	060610216	N	18	31	0	-
06	061	021304	3022	060610213	N	23	57	0	-
06	061	021604	2022	060610216	N	3	13	0	-
06	061	021304	3015	060610213	N	11	31	0	-
06	061	021604	1014	060610216	N	2	8	0	-
06	061	021604	1016	060610216	N	0	0	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021604	2066	060610216	N	0	0	0	-
06	061	021604	2055	060610216	N	6	9	0	-
06	061	020501	1022	060610205	N	8	20	0	-
06	061	021604	1037	060610216	N	0	0	0	-
06	061	021604	1001	060610216	N	2	2	0	-
06	061	021801	4010	060610218	N	38	103	0	-
06	061	021604	2056	060610216	N	1	2	0	-
06	061	021603	3007	060610216	N	4	14	100	14
06	061	021801	3003	060610218	N	4	8	0	-
06	061	021603	1013	060610216	N	2	17	100	17
06	061	021501	1014	060610215	N	1	1	0	-
06	061	021603	1023	060610216	N	0	0	100	-
06	061	021603	1025	060610216	N	0	0	100	-
06	061	021501	2039	060610215	N	0	0	0	-
06	061	021604	2045	060610216	N	8	18	0	-
06	061	021802	2021	060610218	N	6	10	0	-
06	061	021802	2020	060610218	N	0	0	0	-
06	061	021801	2034	060610218	N	1	2	0	-
06	061	023200	1000	060610232	N	0	0	0	-
06	061	021304	4012	060610213	N	7	22	0	-
06	061	021501	2078	060610215	N	0	0	100	-
06	061	021501	2034	060610215	N	20	57	100	57
06	061	021501	2026	060610215	N	58	169	40	68
06	061	021501	2013	060610215	N	12	44	100	44
06	061	023700	2020	060610237	N	24	32	0	-
06	061	021603	2005	060610216	N	56	147	100	147
06	061	021801	3013	060610218	N	20	54	0	-
06	061	021604	2062	060610216	N	4	21	0	-
06	061	021603	1024	060610216	N	27	57	100	57
06	061	021304	3033	060610213	N	6	26	0	-
06	061	022002	2078	060610220	N	0	0	0	-
06	061	020501	1004	060610205	N	10	27	0	-
06	061	020501	3014	060610205	N	16	34	0	-
06	061	021801	1015	060610218	N	34	94	0	-
06	061	021801	3016	060610218	N	0	0	0	-
06	061	021501	3011	060610215	N	9	24	0	-
06	061	023700	2025	060610237	N	0	0	0	-
06	061	023700	2024	060610237	N	0	0	0	-
06	061	021304	3011	060610213	N	14	38	0	-
06	061	021801	2053	060610218	N	8	28	0	-
06	061	021603	1029	060610216	N	22	24	100	24
06	061	021501	2050	060610215	N	4	10	0	-
06	061	020501	3012	060610205	N	64	174	0	-
06	061	021604	1024	060610216	N	15	41	0	-
06	061	023800	1013	060610238	N	30	57	0	-
06	061	023700	1020	060610237	N	25	48	0	-
06	061	023800	1007	060610238	N	39	66	0	-
06	061	023700	1014	060610237	N	53	83	0	-
06	061	023700	1027	060610237	N	0	0	0	-
06	061	023700	1023	060610237	N	31	41	0	-
06	061	023700	1026	060610237	N	0	0	0	-
06	061	023300	1022	060610233	N	0	0	0	-
06	061	023300	1023	060610233	N	0	0	0	-
06	061	021604	1043	060610216	N	7	31	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021304	3034	060610213	N	2	6	0	-
06	061	021304	3041	060610213	N	4	9	0	-
06	061	020501	1026	060610205	N	3	10	0	-
06	061	020501	1024	060610205	N	12	26	0	-
06	061	021501	1017	060610215	N	19	57	80	46
06	061	021304	2003	060610213	N	27	66	0	-
06	061	023300	1025	060610233	N	0	0	0	-
06	061	023200	1022	060610232	N	28	60	0	-
06	061	023800	1042	060610238	N	19	26	0	-
06	061	021304	1000	060610213	N	86	222	0	-
06	061	021304	1017	060610213	N	75	196	0	-
06	061	021304	3008	060610213	N	0	0	0	-
06	061	021403	3018	060610214	N	56	172	0	-
06	061	021304	1093	060610213	N	13	40	0	-
06	061	021304	3036	060610213	N	1	1	0	-
06	061	021304	3016	060610213	N	35	77	0	-
06	061	021604	1029	060610216	N	6	8	0	-
06	061	021604	2052	060610216	N	1	2	0	-
06	061	021604	2053	060610216	N	37	99	0	-
06	061	021801	3017	060610218	N	12	37	0	-
06	061	021603	1014	060610216	N	40	101	100	101
06	061	021603	1000	060610216	N	18	20	100	20
06	061	021802	2022	060610218	N	134	276	0	-
06	061	021304	1021	060610213	N	0	0	0	-
06	061	020501	3001	060610205	N	3	10	0	-
06	061	021604	2004	060610216	N	0	0	0	-
06	061	021801	4000	060610218	N	21	47	0	-
06	061	021902	1021	060610219	N	2	8	0	-
06	061	021603	3001	060610216	N	8	22	100	22
06	061	021304	3009	060610213	N	2	7	0	-
06	061	021501	1015	060610215	N	22	65	0	-
06	061	021603	3000	060610216	N	117	263	100	263
06	061	020501	3008	060610205	N	22	46	0	-
06	061	021501	3015	060610215	N	3	5	0	-
06	061	022002	2141	060610220	N	0	0	0	-
06	061	023300	1000	060610233	N	0	0	0	-
06	061	021304	3042	060610213	N	1	2	0	-
06	061	021802	2024	060610218	N	167	405	40	162
06	061	021604	2016	060610216	N	9	24	0	-
06	061	022013	3084	060610220	N	0	0	0	-
06	061	022013	3112	060610220	N	0	0	0	-
06	061	022013	3114	060610220	N	0	0	0	-
06	061	021604	1012	060610216	N	25	52	0	-
06	061	021501	1013	060610215	N	21	38	0	-
06	061	021501	2007	060610215	N	28	55	100	55
06	061	021604	1000	060610216	N	33	78	0	-
06	061	021604	1025	060610216	N	0	0	0	-
06	061	021304	3012	060610213	N	13	55	0	-
06	061	021604	1046	060610216	N	8	19	0	-
06	061	021604	2068	060610216	N	65	164	90	148
06	061	021604	2064	060610216	N	33	70	70	49
06	061	021604	2048	060610216	N	0	0	0	-
06	061	021604	2049	060610216	N	5	10	0	-
06	061	021802	1015	060610218	N	103	227	80	182

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021801	1023	060610218	N	13	41	0	-
06	061	021801	4011	060610218	N	20	55	0	-
06	061	021801	3019	060610218	N	7	21	0	-
06	061	021501	2020	060610215	N	0	0	0	-
06	061	021603	1027	060610216	N	14	18	100	18
06	061	021603	2003	060610216	N	89	262	100	262
06	061	021802	1014	060610218	N	0	146	30	44
06	061	021802	1027	060610218	N	20	37	100	37
06	061	021802	2038	060610218	N	0	0	100	-
06	061	021501	2041	060610215	N	0	0	100	-
06	061	021501	2048	060610215	N	14	30	100	30
06	061	021401	1000	060610214	N	1	0	0	-
06	061	021802	1048	060610218	N	0	0	100	-
06	061	022002	2134	060610220	N	33	77	0	-
06	061	021501	3014	060610215	N	42	112	0	-
06	061	021501	2017	060610215	N	0	0	0	-
06	061	021603	1021	060610216	N	17	31	100	31
06	061	021603	3003	060610216	N	7	17	100	17
06	061	021501	2001	060610215	N	0	0	0	-
06	061	021304	3031	060610213	N	3	6	0	-
06	061	021304	4011	060610213	N	6	12	0	-
06	061	021304	3007	060610213	N	9	24	0	-
06	061	021501	2056	060610215	N	62	100	100	100
06	061	020501	1006	060610205	N	1	2	0	-
06	061	021501	3017	060610215	N	2	4	0	-
06	061	021604	2027	060610216	N	0	0	0	-
06	061	021604	1006	060610216	N	0	0	0	-
06	061	021604	1011	060610216	N	11	29	0	-
06	061	021604	2075	060610216	N	22	45	0	-
06	061	021801	2052	060610218	N	1	1	0	-
06	061	020501	3019	060610205	N	32	77	0	-
06	061	023800	1020	060610238	N	26	37	0	-
06	061	023700	2000	060610237	N	0	0	0	-
06	061	021604	1035	060610216	N	8	14	0	-
06	061	021604	2031	060610216	N	0	0	0	-
06	061	021604	2032	060610216	N	1	0	0	-
06	061	021801	1059	060610218	N	5	11	0	-
06	061	021604	1034	060610216	N	0	0	0	-
06	061	021501	2043	060610215	N	55	137	100	137
06	061	021604	1038	060610216	N	29	63	0	-
06	061	023700	1019	060610237	N	63	104	0	-
06	061	023800	1021	060610238	N	38	69	0	-
06	061	023700	1008	060610237	N	17	32	0	-
06	061	023800	1041	060610238	N	17	24	0	-
06	061	023800	1054	060610238	N	22	30	0	-
06	061	021304	1095	060610213	N	7	16	0	-
06	061	021304	2017	060610213	N	0	0	0	-
06	061	021304	2000	060610213	N	2	3	0	-
06	061	021604	1047	060610216	N	5	12	0	-
06	061	021604	2072	060610216	N	1	2	0	-
06	061	021604	2037	060610216	N	7	20	0	-
06	061	021604	2024	060610216	N	0	0	0	-
06	061	021604	1048	060610216	N	0	0	0	-
06	061	021501	3030	060610215	N	1	1	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021604	2036	060610216	N	0	0	0	-
06	061	023300	1005	060610233	N	19	56	0	-
06	061	021802	2037	060610218	N	0	0	100	-
06	061	021502	1040	060610215	N	0	0	0	-
06	061	021801	1000	060610218	N	20	55	0	-
06	061	021902	1017	060610219	N	157	390	0	-
06	061	021401	2021	060610214	N	43	111	0	-
06	061	021304	3037	060610213	N	21	56	0	-
06	061	021604	2038	060610216	N	24	53	50	27
06	061	021501	1002	060610215	N	0	0	0	-
06	061	021603	1009	060610216	N	0	0	100	-
06	061	021501	1011	060610215	N	3	5	0	-
06	061	021604	2041	060610216	N	5	13	0	-
06	061	020501	1009	060610205	N	0	0	0	-
06	061	021304	1057	060610213	N	0	0	0	-
06	061	021801	3011	060610218	N	13	31	0	-
06	061	020501	1008	060610205	N	1	3	0	-
06	061	021604	2002	060610216	N	1	2	0	-
06	061	021604	2076	060610216	N	3	7	0	-
06	061	021604	2005	060610216	N	7	11	0	-
06	061	021801	4006	060610218	N	15	40	0	-
06	061	021902	1000	060610219	N	8	18	0	-
06	061	021802	1003	060610218	N	0	0	0	-
06	061	021304	1089	060610213	N	6	14	0	-
06	061	021902	2020	060610219	N	0	0	0	-
06	061	021902	2014	060610219	N	0	0	0	-
06	061	021304	2021	060610213	N	1	1	0	-
06	061	021304	2033	060610213	N	25	78	0	-
06	061	020501	1015	060610205	N	60	156	0	-
06	061	021501	1022	060610215	N	1	5	0	-
06	061	021604	2010	060610216	N	11	22	0	-
06	061	022013	3119	060610220	N	0	0	0	-
06	061	021501	1027	060610215	N	5	14	0	-
06	061	021604	1004	060610216	N	15	37	0	-
06	061	021604	1010	060610216	N	12	34	0	-
06	061	021304	3025	060610213	N	86	209	0	-
06	061	021604	1019	060610216	N	0	0	0	-
06	061	021304	3021	060610213	N	0	0	0	-
06	061	021604	1054	060610216	N	7	16	0	-
06	061	021604	2043	060610216	N	2	4	0	-
06	061	020501	1005	060610205	N	13	28	0	-
06	061	021801	4015	060610218	N	7	14	0	-
06	061	021603	3009	060610216	N	20	46	50	23
06	061	021603	3010	060610216	N	2	6	0	-
06	061	021801	4014	060610218	N	10	23	0	-
06	061	021501	3004	060610215	N	10	27	0	-
06	061	021501	2029	060610215	N	4	9	100	9
06	061	021501	2042	060610215	N	96	233	50	117
06	061	021501	2015	060610215	N	0	264	100	264
06	061	021603	1006	060610216	N	13	16	100	16
06	061	021304	1019	060610213	N	10	31	0	-
06	061	023700	2004	060610237	N	14	18	0	-
06	061	021802	1041	060610218	N	0	0	100	-
06	061	023700	1002	060610237	N	188	281	0	-



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	023700	1018	060610237	N	24	37	0	-
06	061	023800	1045	060610238	N	28	42	0	-
06	061	023800	1024	060610238	N	36	53	0	-
06	061	021802	1017	060610218	N	3	9	100	9
06	061	021304	3032	060610213	N	32	70	0	-
06	061	021304	3027	060610213	N	9	18	0	-
06	061	020501	1021	060610205	N	29	76	0	-
06	061	023700	1012	060610237	N	0	0	0	-
06	061	021604	2047	060610216	N	4	8	0	-
06	061	021604	1028	060610216	N	0	0	0	-
06	061	023300	1008	060610233	N	20	61	0	-
06	061	023300	1002	060610233	N	23	89	0	-
06	061	021902	1004	060610219	N	0	0	0	-
06	061	021902	1003	060610219	N	0	0	0	-
06	061	023800	1056	060610238	N	18	34	0	-
06	061	023800	1006	060610238	N	0	0	0	-
06	061	023800	1009	060610238	N	23	33	0	-
06	061	023800	1031	060610238	N	9	9	0	-
06	061	021501	2024	060610215	N	42	144	100	144
06	061	021604	2074	060610216	N	4	13	0	-
06	061	021801	2051	060610218	N	16	38	0	-
06	061	023300	1016	060610233	N	62	219	0	-
06	061	023200	1064	060610232	N	0	0	0	-
06	061	021304	2002	060610213	N	4	13	0	-
06	061	021304	3040	060610213	N	4	12	0	-
06	061	021304	3003	060610213	N	0	0	0	-
06	061	021501	1024	060610215	N	11	30	0	-
06	061	021501	1010	060610215	N	27	72	10	7
06	061	021604	2034	060610216	N	0	0	0	-
06	061	021604	1033	060610216	N	29	49	0	-
06	061	021501	3028	060610215	N	6	11	0	-
06	061	021501	2004	060610215	N	0	0	100	-
06	061	021501	2009	060610215	N	0	79	100	79
06	061	021501	2000	060610215	N	24	130	60	78
06	061	021801	1019	060610218	N	11	27	0	-
06	061	021801	1058	060610218	N	10	31	0	-
06	061	021501	1001	060610215	N	18	42	0	-
06	061	023800	1029	060610238	N	36	56	0	-
06	061	021501	2055	060610215	N	41	40	0	-
06	061	021501	2021	060610215	N	0	0	100	-
06	061	023800	1023	060610238	N	47	69	0	-
06	061	021501	2063	060610215	N	9	14	100	14
06	061	021501	2062	060610215	N	17	27	100	27
06	061	021304	4000	060610213	N	90	245	0	-
06	061	021604	1002	060610216	N	10	19	0	-
06	061	021401	1002	060610214	N	76	228	0	-
06	061	021304	3043	060610213	N	5	6	0	-
06	061	021501	2049	060610215	N	87	124	100	124
06	061	021304	1012	060610213	N	0	0	0	-
06	061	021304	1066	060610213	N	7	15	0	-
06	061	021304	1100	060610213	N	1	4	0	-
06	061	020501	3005	060610205	N	18	47	0	-
06	061	020501	1019	060610205	N	0	0	0	-
06	061	020501	1017	060610205	N	1	2	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021604	2008	060610216	N	0	0	0	-
06	061	021604	2028	060610216	N	0	0	0	-
06	061	021304	1006	060610213	N	0	0	0	-
06	061	021604	1021	060610216	N	38	84	0	-
06	061	021902	2019	060610219	N	2	4	0	-
06	061	021902	1025	060610219	N	0	0	0	-
06	061	021304	1088	060610213	N	39	96	0	-
06	061	021304	4001	060610213	N	9	24	0	-
06	061	021304	3020	060610213	N	13	32	0	-
06	061	021304	3024	060610213	N	5	8	0	-
06	061	021501	1020	060610215	N	34	90	0	-
06	061	021901	1006	060610219	N	37	79	0	-
06	061	021304	4022	060610213	N	24	59	0	-
06	061	023800	1051	060610238	N	19	29	0	-
06	061	021902	1011	060610219	N	0	0	0	-
06	061	021322	1016	060610213	N	0	0	0	-
06	061	022002	2142	060610220	N	0	0	0	-
06	061	022013	3125	060610220	N	4	5	0	-
06	061	022013	3138	060610220	N	0	0	0	-
06	061	021604	2023	060610216	N	0	0	0	-
06	061	021604	1018	060610216	N	12	28	0	-
06	061	021604	2060	060610216	N	2	3	0	-
06	061	021604	1008	060610216	N	21	51	0	-
06	061	021501	1026	060610215	N	0	0	0	-
06	061	021604	2057	060610216	N	9	19	70	13
06	061	021603	1010	060610216	N	680	1547	80	1,238
06	061	021801	4009	060610218	N	17	40	0	-
06	061	021603	3005	060610216	N	33	70	100	70
06	061	021603	3006	060610216	N	15	30	100	30
06	061	021802	1018	060610218	N	20	54	100	54
06	061	021801	3002	060610218	N	1	2	0	-
06	061	021501	3001	060610215	N	17	58	80	46
06	061	021604	1042	060610216	N	0	0	0	-
06	061	021501	1004	060610215	N	7	14	50	7
06	061	021501	3005	060610215	N	8	27	0	-
06	061	021603	1028	060610216	N	19	24	100	24
06	061	021603	2002	060610216	N	40	106	100	106
06	061	021501	2005	060610215	N	0	0	100	-
06	061	021802	1022	060610218	N	12	24	100	24
06	061	021802	1023	060610218	N	0	0	100	-
06	061	021501	2047	060610215	N	6	6	100	6
06	061	021501	2057	060610215	N	20	27	100	27
06	061	021501	2064	060610215	N	51	75	100	75
06	061	021801	1016	060610218	N	14	42	0	-
06	061	021501	3013	060610215	N	1	2	0	-
06	061	021501	2023	060610215	N	34	66	100	66
06	061	023800	1046	060610238	N	39	57	0	-
06	061	021603	1035	060610216	N	0	0	100	-
06	061	021603	1017	060610216	N	34	50	100	50
06	061	021304	3023	060610213	N	14	39	0	-
06	061	021304	1101	060610213	N	2	5	0	-
06	061	021501	2046	060610215	N	0	0	100	-
06	061	021304	3026	060610213	N	19	53	0	-
06	061	023800	1010	060610238	N	26	42	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	023800	1043	060610238	N	16	21	0	-
06	061	023800	1044	060610238	N	40	73	0	-
06	061	021501	2030	060610215	N	2	5	100	5
06	061	021604	2071	060610216	N	1	1	0	-
06	061	021604	1020	060610216	N	1	2	0	-
06	061	021603	1001	060610216	N	63	106	100	106
06	061	021304	4010	060610213	N	3	8	0	-
06	061	023800	1011	060610238	N	3	8	0	-
06	061	023700	2003	060610237	N	264	438	0	-
06	061	021902	1005	060610219	N	25	51	0	-
06	061	021604	1015	060610216	N	2	6	0	-
06	061	021204	1028	060610212	N	1	2	0	-
06	061	021801	4012	060610218	N	7	19	0	-
06	061	023700	2019	060610237	N	0	0	0	-
06	061	021604	2025	060610216	N	0	0	0	-
06	061	023300	1017	060610233	N	15	49	0	-
06	061	023700	1006	060610237	N	20	26	0	-
06	061	020501	3031	060610205	N	19	53	0	-
06	061	021902	1001	060610219	N	0	0	0	-
06	061	022013	3148	060610220	N	4	13	0	-
06	061	023300	1015	060610233	N	11	36	0	-
06	061	023300	1020	060610233	N	15	48	0	-
06	061	023700	1009	060610237	N	26	41	0	-
06	061	023800	1055	060610238	N	33	50	0	-
06	061	023700	1025	060610237	N	3	4	0	-
06	061	023800	1003	060610238	N	0	0	0	-
06	061	023700	1016	060610237	N	19	30	0	-
06	061	023700	1010	060610237	N	26	46	0	-
06	061	023800	1033	060610238	N	52	87	0	-
06	061	023700	1011	060610237	N	15	23	0	-
06	061	023800	1022	060610238	N	9	13	0	-
06	061	021304	2020	060610213	N	0	0	0	-
06	061	021304	3035	060610213	N	4	7	0	-
06	061	021604	2044	060610216	N	17	32	0	-
06	061	021604	2033	060610216	N	6	10	0	-
06	061	021604	2018	060610216	N	17	34	0	-
06	061	021604	2073	060610216	N	0	0	0	-
06	061	021501	3012	060610215	N	61	137	0	-
06	061	021801	2039	060610218	N	21	58	0	-
06	061	021603	1031	060610216	N	0	0	100	-
06	061	021801	1021	060610218	N	0	0	0	-
06	061	021801	1022	060610218	N	1	2	0	-
06	061	021604	2001	060610216	N	0	0	0	-
06	061	020501	1007	060610205	N	25	63	0	-
06	061	023300	1004	060610233	N	17	56	0	-
06	061	021802	1043	060610218	N	0	0	100	-
06	061	021501	2045	060610215	N	40	53	100	53
06	061	023700	1000	060610237	N	0	0	0	-
06	061	021304	3029	060610213	N	36	75	0	-
06	061	021304	4013	060610213	N	20	41	0	-
06	061	021304	3039	060610213	N	12	26	0	-
06	061	021304	1092	060610213	N	13	27	0	-
06	061	021501	1006	060610215	N	54	136	0	-
06	061	021501	1005	060610215	N	60	154	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021603	1004	060610216	N	20	25	100	25
06	061	021604	2054	060610216	N	8	25	0	-
06	061	021501	2018	060610215	N	0	17	0	-
06	061	021802	1006	060610218	N	51	103	0	-
06	061	021603	1008	060610216	N	0	0	100	-
06	061	021304	1015	060610213	N	0	0	0	-
06	061	021801	3005	060610218	N	8	15	0	-
06	061	020501	1014	060610205	N	6	19	0	-
06	061	020501	1013	060610205	N	13	21	0	-
06	061	021801	4004	060610218	N	47	115	0	-
06	061	021304	1096	060610213	N	0	0	0	-
06	061	021304	1011	060610213	N	0	0	0	-
06	061	021801	4007	060610218	N	12	24	0	-
06	061	021801	1001	060610218	N	5	11	0	-
06	061	021304	2028	060610213	N	3	6	0	-
06	061	021304	2029	060610213	N	0	0	0	-
06	061	021304	1090	060610213	N	0	0	0	-
06	061	021304	4006	060610213	N	35	73	0	-
06	061	021603	3004	060610216	N	13	24	100	24
06	061	022013	3134	060610220	N	111	226	0	-
06	061	021501	2077	060610215	N	50	120	50	60
06	061	021304	3001	060610213	N	6	14	0	-
06	061	021304	2036	060610213	N	33	99	0	-
06	061	021604	2012	060610216	N	3	4	0	-
06	061	021304	3014	060610213	N	26	66	0	-
06	061	022013	3129	060610220	N	13	70	0	-
06	061	022013	3140	060610220	N	0	0	0	-
06	061	021604	2065	060610216	N	13	44	0	-
06	061	021603	1002	060610216	N	61	87	100	87
06	061	021501	2044	060610215	N	90	195	100	195
06	061	021604	1052	060610216	N	8	18	0	-
06	061	021304	3019	060610213	N	0	0	0	-
06	061	021604	1009	060610216	N	0	0	0	-
06	061	021801	3012	060610218	N	12	35	0	-
06	061	021604	1030	060610216	N	2	5	0	-
06	061	021604	2015	060610216	N	84	202	0	-
06	061	021801	4017	060610218	N	8	14	0	-
06	061	021801	3020	060610218	N	54	134	50	67
06	061	021801	2057	060610218	N	3	14	0	-
06	061	021501	3002	060610215	N	21	50	100	50
06	061	021501	3008	060610215	N	3	5	0	-
06	061	021501	1016	060610215	N	6	19	0	-
06	061	021603	1036	060610216	N	0	0	100	-
06	061	021603	1030	060610216	N	0	0	100	-
06	061	021603	1033	060610216	N	0	0	100	-
06	061	021501	2010	060610215	N	0	0	100	-
06	061	021501	2036	060610215	N	19	47	100	47
06	061	021802	1026	060610218	N	16	36	100	36
06	061	021802	1031	060610218	N	0	0	100	-
06	061	021401	2010	060610214	N	14	44	0	-
06	061	021604	2067	060610216	N	2	4	0	-
06	061	021501	2016	060610215	N	0	0	100	-
06	061	023800	1048	060610238	N	0	0	0	-
06	061	021604	1039	060610216	N	11	23	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021603	1005	060610216	N	7	9	100	9
06	061	021501	2061	060610215	N	7	8	100	8
06	061	021802	1042	060610218	N	0	0	100	-
06	061	023300	1001	060610233	N	84	289	0	-
06	061	023800	1002	060610238	N	636	1012	0	-
06	061	021801	3001	060610218	N	14	37	0	-
06	061	020501	3004	060610205	N	0	0	0	-
06	061	021604	2050	060610216	N	58	133	0	-
06	061	020501	1016	060610205	N	0	0	0	-
06	061	021501	3031	060610215	N	18	46	0	-
06	061	021604	2030	060610216	N	2	4	0	-
06	061	021604	1056	060610216	N	3	9	0	-
06	061	020501	3006	060610205	N	10	21	0	-
06	061	020501	1000	060610205	N	5	14	0	-
06	061	021802	2039	060610218	N	0	0	100	-
06	061	023700	2018	060610237	N	0	0	0	-
06	061	023700	2001	060610237	N	0	0	0	-
06	061	021604	1007	060610216	N	1	2	0	-
06	061	023500	1039	060610235	N	0	0	0	-
06	061	023200	1012	060610232	N	0	0	0	-
06	061	021604	2003	060610216	N	0	0	0	-
06	061	021604	1023	060610216	N	1	4	0	-
06	061	021603	3008	060610216	N	83	199	100	199
06	061	021802	1020	060610218	N	8	18	100	18
06	061	023300	1024	060610233	N	0	0	0	-
06	061	023800	1057	060610238	N	30	45	0	-
06	061	023800	1040	060610238	N	18	30	0	-
06	061	023700	1024	060610237	N	10	17	0	-
06	061	021501	2027	060610215	N	3	11	100	11
06	061	023300	1021	060610233	N	41	133	0	-
06	061	023300	1019	060610233	N	18	65	0	-
06	061	021501	2025	060610215	N	16	47	100	47
06	061	021501	2032	060610215	N	18	46	100	46
06	061	021902	2002	060610219	N	2	5	0	-
06	061	023800	1015	060610238	N	31	55	0	-
06	061	023800	1016	060610238	N	27	47	0	-
06	061	021304	2025	060610213	N	0	0	0	-
06	061	021604	1057	060610216	N	0	0	0	-
06	061	020501	1029	060610205	N	5	12	0	-
06	061	021604	1003	060610216	N	5	13	0	-
06	061	021304	3004	060610213	N	6	12	0	-
06	061	021304	3017	060610213	N	6	19	0	-
06	061	021604	1036	060610216	N	44	117	0	-
06	061	021501	2022	060610215	N	0	0	100	-
06	061	021801	1002	060610218	N	38	85	0	-
06	061	023700	1003	060610237	N	14	20	0	-
06	061	021501	2071	060610215	N	1	4	0	-
06	061	023800	1036	060610238	N	0	0	0	-
06	061	021501	2058	060610215	N	8	10	100	10
06	061	021304	1007	060610213	N	0	0	0	-
06	061	023800	1001	060610238	N	48	160	0	-
06	061	021204	1029	060610212	N	19	55	0	-
06	061	021501	2003	060610215	N	0	0	0	-
06	061	021603	1011	060610216	N	53	135	100	135

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021304	1013	060610213	N	1	3	0	-
06	061	021304	1016	060610213	N	0	0	0	-
06	061	020501	1012	060610205	N	3	5	0	-
06	061	021501	3007	060610215	N	6	15	0	-
06	061	021304	1024	060610213	N	0	0	0	-
06	061	021902	2005	060610219	N	173	411	0	-
06	061	021802	1045	060610218	N	0	0	0	-
06	061	021322	1015	060610213	N	4	9	0	-
06	061	021304	4003	060610213	N	1	3	0	-
06	061	021401	1001	060610214	N	1	2	0	-
06	061	021501	2002	060610215	N	0	0	100	-
06	061	021304	2030	060610213	N	0	0	0	-
06	061	021304	1091	060610213	N	11	34	0	-
06	061	021304	1094	060610213	N	11	29	0	-
06	061	021304	4009	060610213	N	70	205	0	-
06	061	023200	1001	060610232	N	395	1184	0	-
06	061	020501	1020	060610205	N	13	29	0	-
06	061	021403	3017	060610214	N	0	0	0	-
06	061	021401	2012	060610214	N	2	2	0	-
06	061	023700	2013	060610237	N	35	51	0	-
06	061	021304	1083	060610213	N	0	0	0	-
06	061	021304	3000	060610213	N	13	27	0	-
06	061	021401	2009	060610214	N	13	39	0	-
06	061	022013	3141	060610220	N	1	3	0	-
06	061	022013	3131	060610220	N	0	0	0	-
06	061	022013	3142	060610220	N	6	7	0	-
06	061	021604	1055	060610216	N	3	13	0	-
06	061	020501	1001	060610205	N	4	8	0	-
06	061	021604	2061	060610216	N	7	19	0	-
06	061	021604	1031	060610216	N	3	5	0	-
06	061	021801	3018	060610218	N	12	29	0	-
06	061	021802	1005	060610218	N	0	0	100	-
06	061	021501	1019	060610215	N	2	6	0	-
06	061	021603	1015	060610216	N	62	144	100	144
06	061	021603	1019	060610216	N	0	0	100	-
06	061	021603	1026	060610216	N	15	17	100	17
06	061	021501	2006	060610215	N	0	0	100	-
06	061	021802	1028	060610218	N	1	2	100	2
06	061	021501	3016	060610215	N	23	61	0	-
06	061	021801	2040	060610218	N	4	13	0	-
06	061	023500	1037	060610235	N	0	0	0	-
06	061	021604	2046	060610216	N	4	17	0	-
06	061	021604	1005	060610216	N	0	0	0	-
06	061	021603	2001	060610216	N	12	44	100	44
06	061	021801	3015	060610218	N	2	3	0	-
06	061	021501	1009	060610215	N	1	2	0	-
06	061	021604	2014	060610216	N	0	0	0	-
06	061	023700	1007	060610237	N	339	572	0	-
06	061	023700	1005	060610237	N	23	34	0	-
06	061	023700	1015	060610237	N	5	6	0	-
06	061	021802	1021	060610218	N	47	111	100	111
06	061	021902	1012	060610219	N	0	0	0	-
06	061	020501	1002	060610205	N	10	23	0	-
06	061	021801	3009	060610218	N	11	20	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021801	3022	060610218	N	0	0	0	-
06	061	021501	1029	060610215	N	1	4	0	-
06	061	021501	3036	060610215	N	1	1	0	-
06	061	023500	1040	060610235	N	0	0	0	-
06	061	021604	2026	060610216	N	1	3	0	-
06	061	023700	2034	060610237	N	0	0	0	-
06	061	021902	2015	060610219	N	0	0	0	-
06	061	023300	1010	060610233	N	29	90	0	-
06	061	021801	4008	060610218	N	6	10	0	-
06	061	021604	2019	060610216	N	2	0	0	-
06	061	021604	2009	060610216	N	1	6	0	-
06	061	023800	1005	060610238	N	0	0	0	-
06	061	023800	1025	060610238	N	75	134	0	-
06	061	023800	1030	060610238	N	14	21	0	-
06	061	023800	1052	060610238	N	36	60	0	-
06	061	023800	1027	060610238	N	30	52	0	-
06	061	023700	1028	060610237	N	24	38	0	-
06	061	023800	1014	060610238	N	35	48	0	-
06	061	023700	1021	060610237	N	14	20	0	-
06	061	021501	2031	060610215	N	26	81	100	81
06	061	021801	4016	060610218	N	0	0	0	-
06	061	021501	2033	060610215	N	6	22	100	22
06	061	021604	2013	060610216	N	32	63	0	-
06	061	021304	1086	060610213	N	9	21	0	-
06	061	021501	1028	060610215	N	1	1	0	-
06	061	020501	3010	060610205	N	3	5	0	-
06	061	021604	2029	060610216	N	0	0	0	-
06	061	021604	2070	060610216	N	2	4	0	-
06	061	021604	2021	060610216	N	0	0	0	-
06	061	021603	1034	060610216	N	0	0	100	-
06	061	021801	3014	060610218	N	4	9	0	-
06	061	021801	1020	060610218	N	0	0	0	-
06	061	021801	1013	060610218	N	6	20	0	-
06	061	021501	1000	060610215	N	10	32	50	16
06	061	023800	1018	060610238	N	15	26	0	-
06	061	021304	3010	060610213	N	31	79	0	-
06	061	021501	2067	060610215	N	2	3	0	-
06	061	023300	2020	060610233	N	0	0	0	-
06	061	023200	1029	060610232	N	24	51	0	-
06	061	021304	1009	060610213	N	55	132	0	-
06	061	021801	1014	060610218	N	11	26	0	-
06	061	021304	3005	060610213	N	4	6	0	-
06	061	021501	3000	060610215	N	94	205	10	21
06	061	021501	2028	060610215	N	0	0	100	-
06	061	020501	1018	060610205	N	1	5	0	-
06	061	021304	1022	060610213	N	0	0	0	-
06	061	021604	2007	060610216	N	83	165	0	-
06	061	021304	1004	060610213	N	0	0	0	-
06	061	021902	2034	060610219	N	14	40	0	-
06	061	021801	4002	060610218	N	3	23	0	-
06	061	021802	1012	060610218	N	0	0	100	-
06	061	021304	2026	060610213	N	1	2	0	-
06	061	021304	1087	060610213	N	4	10	0	-
06	061	021304	1085	060610213	N	6	12	0	-



STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021304	4014	060610213	N	27	77	0	-
06	061	021501	1021	060610215	N	6	18	0	-
06	061	021501	3019	060610215	N	2	3	0	-
06	061	021401	2013	060610214	N	40	118	0	-
06	061	023500	1035	060610235	N	0	0	0	-
06	061	020501	1010	060610205	N	0	0	0	-
06	061	021901	1000	060610219	N	4	7	0	-
06	061	021304	3006	060610213	N	4	9	0	-
06	061	021604	1027	060610216	N	42	111	0	-
06	061	021304	1008	060610213	N	11	38	0	-
06	061	021304	1014	060610213	N	0	0	0	-
06	061	021304	4015	060610213	N	19	52	0	-
06	061	022013	3123	060610220	N	0	0	0	-
06	061	022013	3122	060610220	N	0	0	0	-
06	061	022013	3113	060610220	N	0	0	0	-
06	061	021604	2039	060610216	N	3	5	0	-
06	061	020501	3000	060610205	N	76	216	0	-
06	061	021501	1003	060610215	N	0	0	0	-
06	061	021501	3003	060610215	N	8	17	0	-
06	061	021603	1022	060610216	N	10	25	100	25
06	061	021802	1019	060610218	N	19	53	100	53
06	061	021801	4013	060610218	N	23	53	0	-
06	061	021801	3000	060610218	N	9	21	0	-
06	061	021902	1008	060610219	N	121	304	0	-
06	061	021603	1007	060610216	N	16	18	100	18
06	061	021501	2012	060610215	N	0	300	100	300
06	061	021501	3006	060610215	N	70	179	0	-
06	061	021802	1024	060610218	N	0	0	100	-
06	061	021501	2040	060610215	N	50	106	100	106
06	061	021902	1013	060610219	N	13	26	0	-
06	061	021501	2019	060610215	N	0	0	0	-
06	061	021604	2017	060610216	N	6	15	0	-
06	061	021802	1016	060610218	N	6	20	100	20
06	061	021304	3028	060610213	N	29	75	0	-
06	061	021802	2035	060610218	N	0	0	100	-
06	061	023700	1004	060610237	N	24	37	0	-
06	061	021501	3018	060610215	N	2	7	0	-
06	061	021604	1026	060610216	N	18	44	0	-
06	061	021801	1012	060610218	N	10	17	0	-
06	061	021801	4018	060610218	N	0	0	0	-
06	061	021802	1004	060610218	N	23	44	100	44
06	061	021501	1025	060610215	N	4	6	0	-
06	061	021501	1008	060610215	N	0	0	0	-
06	061	021802	2028	060610218	N	0	0	100	-
06	061	021204	1004	060610212	N	6	11	0	-
06	061	023800	1012	060610238	N	29	49	0	-
06	061	023700	2002	060610237	N	0	0	0	-
06	061	021801	4020	060610218	N	9	29	0	-
06	061	021603	3002	060610216	N	44	97	100	97
06	061	021801	1057	060610218	N	14	35	0	-
06	061	021604	1045	060610216	N	43	104	0	-
06	061	023700	1022	060610237	N	19	32	0	-
06	061	023300	1018	060610233	N	29	98	0	-
06	061	023700	1013	060610237	N	36	60	0	-

STATEFP10	COUNTYFP10	TRACTCE10	BLOCKCE	BLOCKID1 0	PARTFLG	HOUSING 10	POP10	Perct_NID	Service area Populatio n
06	061	021801	3008	060610218	N	13	30	0	-
06	061	023800	1004	060610238	N	64	70	0	-
06	061	021304	2018	060610213	N	7	17	0	-
06	061	020501	3007	060610205	N	9	19	0	-
06	061	021604	1051	060610216	N	0	0	0	-
06	061	020501	1027	060610205	N	1	2	0	-
06	061	021604	2020	060610216	N	11	29	0	-
06	061	021604	1050	060610216	N	4	15	0	-
06	061	021801	2033	060610218	N	19	53	0	-
06	061	021902	1002	060610219	N	0	0	0	-
06	061	021304	1058	060610213	N	0	0	0	-
06	061	023200	1030	060610232	N	6	0	0	-
06	115	040901	1090	061150409	N	5	7	80	6
06	115	040901	1098	061150409	N	15	38	100	38
06	115	040901	1099	061150409	N	5	12	100	12
06	115	040901	1105	061150409	N	14	26	90	23
06	115	040901	1106	061150409	N	4	7	100	7
06	115	040901	1107	061150409	N	7	24	100	24



## **Appendix F: Distribution System Water Loss Audit**





## AWWA Free Water Audit Software: Reporting Worksheet

WAS v5.0  
American Water Works Association  
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?	Click to access definition
+	Click to add a comment

Water Audit Report for: **Nevada Irrigation District (2910014, )**  
Reporting Year: **2015**    **1/2015 - 12/2015**

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (n/a or 1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

**All volumes to be entered as: MILLION GALLONS (US) PER YEAR**

To select the correct data grading for each input, determine the highest grade where the utility meets or exceeds all criteria for that grade and all grades below it.

Master Meter and Supply Error Adjustments

### WATER SUPPLIED

<----- Enter grading in column 'E' and 'J' ----->

Volume from own sources:	+	?	5	2,550.610	MG/Yr
Water imported:	+	?	n/a	0.000	MG/Yr
Water exported:	+	?	3	0.000	MG/Yr

Pcnt:	Value:						
+	?	5	5.00%	<input checked="" type="radio"/>	<input type="radio"/>		MG/Yr
+	?			<input checked="" type="radio"/>	<input type="radio"/>		MG/Yr
+	?			<input checked="" type="radio"/>	<input type="radio"/>		MG/Yr

Enter negative % or value for under-registration  
Enter positive % or value for over-registration

**WATER SUPPLIED:** **2,429.152** MG/Yr

### AUTHORIZED CONSUMPTION

Billed metered:	+	?	6	2,227.310	MG/Yr
Billed unmetered:	+	?	10	0.570	MG/Yr
Unbilled metered:	+	?	6	21.160	MG/Yr
Unbilled unmetered:	+	?		30.364	MG/Yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

**AUTHORIZED CONSUMPTION:** **2,279.404** MG/Yr

Click here: ?  
for help using option  
buttons below

Pcnt:	Value:			
1.25%	<input checked="" type="radio"/>	<input type="radio"/>		MG/Yr

Use buttons to select  
percentage of water supplied  
**OR**  
value

### WATER LOSSES (Water Supplied - Authorized Consumption)

**149.748** MG/Yr

#### Apparent Losses

Unauthorized consumption: + ? **6.073** MG/Yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:	+	?	3	118.341	MG/Yr
Systematic data handling errors:	+	?		5.568	MG/Yr

Default option selected for Systematic data handling errors - a grading of 5 is applied but not displayed

**Apparent Losses:** **129.982** MG/Yr

Pcnt:	Value:			
0.25%	<input checked="" type="radio"/>	<input type="radio"/>		MG/Yr

5.00%	<input checked="" type="radio"/>	<input type="radio"/>		MG/Yr
0.25%	<input checked="" type="radio"/>	<input type="radio"/>		MG/Yr

#### Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses: ? **19.766** MG/Yr

**WATER LOSSES:** **149.748** MG/Yr

### NON-REVENUE WATER

**NON-REVENUE WATER:** **201.272** MG/Yr

= Water Losses + Unbilled Metered + Unbilled Unmetered

### SYSTEM DATA

Length of mains:	+	?	8	391.5	miles
Number of <u>active AND inactive</u> service connections:	+	?	8	20,108	
Service connection density:	?			51	conn./mile main

Are customer meters typically located at the curbstop or property line? **Yes**

Average length of customer service line: + ?

(length of service line, beyond the property boundary,  
that is the responsibility of the utility)

Average length of customer service line has been set to zero and a data grading score of 10 has been applied

Average operating pressure: + ? 4 **86.0** psi

### COST DATA

Total annual cost of operating water system:	+	?	7	\$25,787,400	\$/Year
Customer retail unit cost (applied to Apparent Losses):	+	?	8	\$1.97	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	+	?	10	\$1,011.03	\$/Million gallons

☐ Use Customer Retail Unit Cost to value real losses

#### WATER AUDIT DATA VALIDITY SCORE:

**\*\*\* YOUR SCORE IS: 62 out of 100 \*\*\***

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

#### PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

1: Volume from own sources

2: Customer metering inaccuracies

3: Billed metered



## AWWA Free Water Audit Software: System Attributes and Performance Indicators

WAS v5.0

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Water Audit Report for: Nevada Irrigation District (2910014, )

Reporting Year: 2015 1/2015 - 12/2015

\*\*\* YOUR WATER AUDIT DATA VALIDITY SCORE IS: 62 out of 100 \*\*\*

### System Attributes:

Apparent Losses:	129.982	MG/Yr
+ Real Losses:	19.766	MG/Yr
= <b>Water Losses:</b>	<b>149.748</b>	MG/Yr

? Unavoidable Annual Real Losses (UARL): 161.16 MG/Yr

Annual cost of Apparent Losses: \$342,308

Annual cost of Real Losses: \$19,984

Valued at **Variable Production Cost**  
Return to Reporting Worksheet to change this assumption

### Performance Indicators:

Financial:

Non-revenue water as percent by volume of Water Supplied: 8.3%

Non-revenue water as percent by cost of operating system: 1.6% Real Losses valued at Variable Production Cost

Operational Efficiency:

Apparent Losses per service connection per day: 17.71 gallons/connection/day

Real Losses per service connection per day: 2.69 gallons/connection/day

Real Losses per length of main per day\*: N/A

Real Losses per service connection per day per psi pressure: 0.03 gallons/connection/day/psi

From Above, Real Losses = Current Annual Real Losses (CARL): 19.77 million gallons/year

? Infrastructure Leakage Index (ILI) [CARL/UARL]: 0.12

\* This performance indicator applies for systems with a low service connection density of less than 32 service connections/mile of pipeline





## AWWA Free Water Audit Software: User Comments

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Use this worksheet to add comments or notes to explain how an input value was calculated, or to document the sources of the information used.

<b>General Comment:</b>	
Audit Item	Comment
<a href="#">Volume from own sources:</a>	Volume = annual plant totals +/- tank storage 100% metered w/goal of annual calibration beginning in 2016 All tanks calibrated in 2015; WTP operator records levels daily
<a href="#">Vol. from own sources: Master meter error adjustment:</a>	Amount of water exported is small and relatively insignificant. Therefore this validity score is low priority.
<a href="#">Water imported:</a>	PCWA Interties: Live Oak; Mount Vernon (after 2015); Locksley Lane (after 2015)
<a href="#">Water imported: master meter error adjustment:</a>	
<a href="#">Water exported:</a>	City of Grass Valley @ Treatment Plant; Broadview Heights; PCWA Intertie @ Jack in the Box, Atwood, Mount Vernon (after 2015), Locksley Lane (after 2015); City of Nevada City Intertie (rarely used)
<a href="#">Water exported: master meter error adjustment:</a>	
<a href="#">Billed metered:</a>	Billed metered = NID Reports > Urban Water Audit plus tank water w/meter totals less leak adjustments
<a href="#">Billed unmetered:</a>	Treated tallied tank water accounts
<a href="#">Unbilled metered:</a>	Leak adjustments NID main office - must be prorated manually

Audit Item	Comment
<a href="#">Unbilled unmetered:</a>	2015 use default Flushing program data is available - only health and safety flushing in 2015; Will begin estimating water used during outages and add data to outage slip and estimating water used for flushing due to water quality complaints and WDO's will report to supervisor. Both will be recorded in Unbilled, Unmetered Spreadsheet
<a href="#">Unauthorized consumption:</a>	
<a href="#">Customer metering inaccuracies:</a>	Used 5% for 2015: 2% inaccuracy off the shelf; 1% stuck meter; 2% due to age of meters (apprx 50% of usefull life)
<a href="#">Systematic data handling errors:</a>	
<a href="#">Length of mains:</a>	Per Dean Hunt, GIS holds 390 miles of 2" diameter and larger pipe. We currently have 2449 hydrants in service. At an average hydrant lead pipe length of 39" (per Ken Copher, Maintenance), this adds 1.5 miles (2449*39/63360 where there are 63360 inches per mile).
<a href="#">Number of active AND inactive service connections:</a>	
<a href="#">Average length of customer service line:</a>	
<a href="#">Average operating pressure:</a>	Used average static pressure of 2540 hydrants in the distribution system.
<a href="#">Total annual cost of operating water system:</a>	Information from Finance Manager - see Cost Data Spreadsheet
<a href="#">Customer retail unit cost (applied to Apparent Losses):</a>	Averaged 2 tiers
<a href="#">Variable production cost (applied to Real Losses):</a>	Information from Finance Manager - see Cost Data Spreadsheet



## AWWA Free Water Audit Software: Dashboard

WAS v5.0

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The graphic below is a visual representation of the Water Balance with bar heights proportional to the volume of the audit components

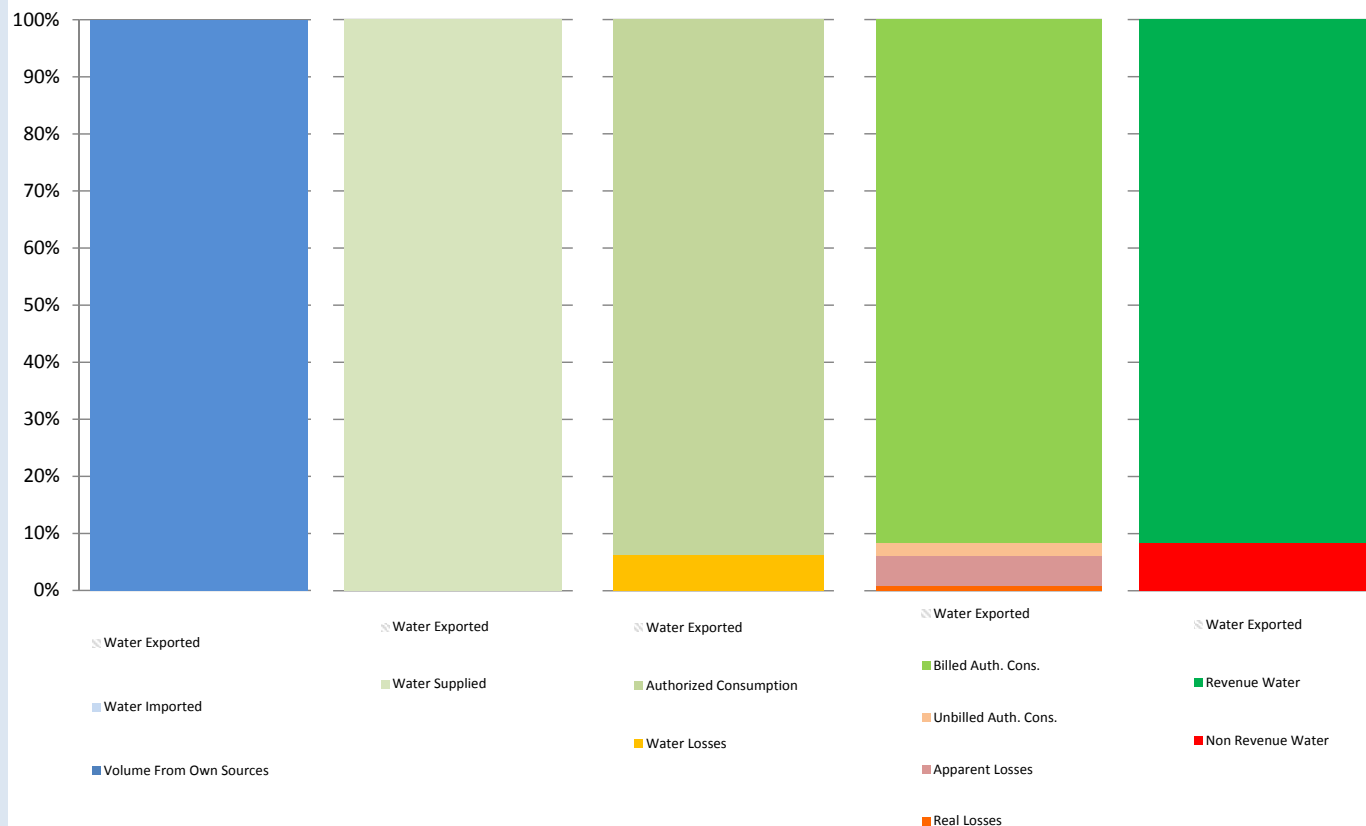
Water Audit Report for: **Nevada Irrigation District (2910014, )**

Reporting Year: **2015**    **1/2015 - 12/2015**

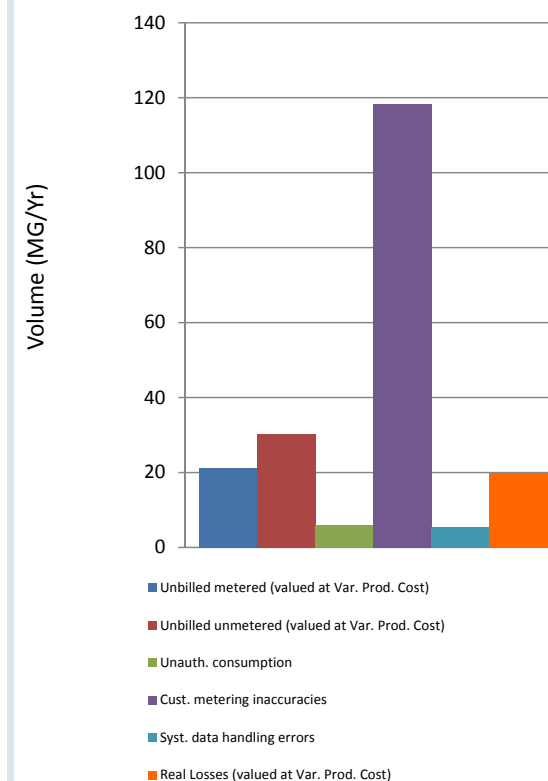
Data Validity Score: **62**

☒ Show me the VOLUME of Non-Revenue Water

☐ Show me the COST of Non-Revenue Water



Total Volume of NRW = 201 MG/Yr





## AWWA Free Water Audit Software: Determining Water Loss Standing

WAS v5.0

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Water Audit Report for: Nevada Irrigation District (2910014,)

Reporting Year: 2015 1/2015 - 12/2015

Data Validity Score: 62

### Water Loss Control Planning Guide

Functional Focus Area	Water Audit Data Validity Level / Score				
	Level I (0-25)	Level II (26-50)	Level III (51-70)	Level IV (71-90)	Level V (91-100)
Audit Data Collection	Launch auditing and loss control team; address production metering deficiencies	Analyze business process for customer metering and billing functions and water supply operations. Identify data gaps.	Establish/revise policies and procedures for data collection	Refine data collection practices and establish as routine business process	Annual water audit is a reliable gauge of year-to-year water efficiency standing
Short-term loss control	Research information on leak detection programs. Begin flowcharting analysis of customer billing system	Conduct loss assessment investigations on a sample portion of the system: customer meter testing, leak survey, unauthorized consumption, etc.	Establish ongoing mechanisms for customer meter accuracy testing, active leakage control and infrastructure monitoring	Refine, enhance or expand ongoing programs based upon economic justification	Stay abreast of improvements in metering, meter reading, billing, leakage management and infrastructure rehabilitation
Long-term loss control		Begin to assess long-term needs requiring large expenditure: customer meter replacement, water main replacement program, new customer billing system or Automatic Meter Reading (AMR) system.	Begin to assemble economic business case for long-term needs based upon improved data becoming available through the water audit process.	Conduct detailed planning, budgeting and launch of comprehensive improvements for metering, billing or infrastructure management	Continue incremental improvements in short-term and long-term loss control interventions
Target-setting			Establish long-term apparent and real loss reduction goals (+10 year horizon)	Establish mid-range (5 year horizon) apparent and real loss reduction goals	Evaluate and refine loss control goals on a yearly basis
Benchmarking			Preliminary Comparisons - can begin to rely upon the Infrastructure Leakage Index (ILI) for performance comparisons for real losses (see below table)	Performance Benchmarking - ILI is meaningful in comparing real loss standing	Identify Best Practices/ Best in class - the ILI is very reliable as a real loss performance indicator for best in class service
For validity scores of 50 or below, the shaded blocks should not be focus areas until better data validity is achieved.					

Once data have been entered into the Reporting Worksheet, the performance indicators are automatically calculated. How does a water utility operator know how well his or her system is performing? The AWWA Water Loss Control Committee provided the following table to assist water utilities in gauging an approximate Infrastructure Leakage Index (ILI) that is appropriate for their water system and local conditions. The lower the amount of leakage and real losses that exist in the system, then the lower the ILI value will be.

**Note:** this table offers an approximate guideline for leakage reduction target-setting. The best means of setting such targets include performing an economic assessment of various loss control methods. However, this table is useful if such an assessment is not possible.

**General Guidelines for Setting a Target ILI**  
(without doing a full economic analysis of leakage control options)

Target ILI Range	Financial Considerations	Operational Considerations	Water Resources Considerations
1.0 - 3.0	Water resources are costly to develop or purchase; ability to increase revenues via water rates is greatly limited because of regulation or low ratepayer affordability.	Operating with system leakage above this level would require expansion of existing infrastructure and/or additional water resources to meet the demand.	Available resources are greatly limited and are very difficult and/or environmentally unsound to develop.
>3.0 -5.0	Water resources can be developed or purchased at reasonable expense; periodic water rate increases can be feasibly imposed and are tolerated by the customer population.	Existing water supply infrastructure capability is sufficient to meet long-term demand as long as reasonable leakage management controls are in place.	Water resources are believed to be sufficient to meet long-term needs, but demand management interventions (leakage management, water conservation) are included in the long-term
>5.0 - 8.0	Cost to purchase or obtain/treat water is low, as are rates charged to customers.	Superior reliability, capacity and integrity of the water supply infrastructure make it relatively immune to supply shortages.	Water resources are plentiful, reliable, and easily extracted.
Greater than 8.0	Although operational and financial considerations may allow a long-term ILI greater than 8.0, such a level of leakage is not an effective utilization of water as a resource. Setting a target level greater than 8.0 - other than as an incremental goal to a smaller long-term target - is discouraged.		
Less than 1.0	If the calculated Infrastructure Leakage Index (ILI) value for your system is 1.0 or less, two possibilities exist. a) you are maintaining your leakage at low levels in a class with the top worldwide performers in leakage control. b) A portion of your data may be flawed, causing your losses to be greatly understated. This is likely if you calculate a low ILI value but do not employ extensive leakage control practices in your operations. In such cases it is beneficial to validate the data by performing field measurements to confirm the accuracy of production and customer meters, or to identify any other potential sources of error in the data.		



## **Appendix G: SBX7-7 GPCD Verification Forms**





**SB X7-7 Table 0: Units of Measure Used in UWMP\****(select one from the drop down list)*

Acre Feet

*\*The unit of measure must be consistent with Table 2-3*

NOTES:

**SB X7-7 Table-1: Baseline Period Ranges**

Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	13,285	Acre Feet
	2008 total volume of delivered recycled water		Acre Feet
	2008 recycled water as a percent of total deliveries	0.00%	Percent
	Number of years in baseline period <sup>1, 2</sup>	10	Years
	Year beginning baseline period range	1995	
	Year ending baseline period range <sup>3</sup>	2004	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2003	
	Year ending baseline period range <sup>4</sup>	2007	

<sup>1</sup> If the 2008 recycled water percent is less than 10 percent, then the first baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater, the first baseline period is a continuous 10- to 15-year period. <sup>2</sup> The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.

<sup>3</sup> The ending year must be between December 31, 2004 and December 31, 2010.

<sup>4</sup> The ending year must be between December 31, 2007 and December 31, 2010.

NOTES:

**SB X7-7 Table 2: Method for Population Estimates**

**Method Used to Determine Population**  
(may check more than one)

☐

**1. Department of Finance (DOF)**  
DOF Table E-8 (1990 - 2000) and (2000-2010) and  
DOF Table E-5 (2011 - 2015) when available

☒

**2. Persons-per-Connection Method**

☐

**3. DWR Population Tool**

☐

**4. Other**  
DWR recommends pre-review

NOTES:

**SB X7-7 Table 3: Service Area Population**

Year		Population
10 to 15 Year Baseline Population		
Year 1	1995	36,536
Year 2	1996	37,004
Year 3	1997	37,420
Year 4	1998	37,953
Year 5	1999	38,686
Year 6	2000	39,374
Year 7	2001	41,996
Year 8	2002	42,609
Year 9	2003	44,202
Year 10	2004	45,420
<i>Year 11</i>		
<i>Year 12</i>		
<i>Year 13</i>		
<i>Year 14</i>		
<i>Year 15</i>		
5 Year Baseline Population		
Year 1	2003	44,202
Year 2	2004	45,420
Year 3	2005	47,000
Year 4	2006	48,114
Year 5	2007	49,236
2015 Compliance Year Population		
<b>2015</b>		50,250
NOTES:		

**SB X7-7 Table 4: Annual Gross Water Use \***

Baseline Year <i>Fm SB X7-7 Table 3</i>		Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	Deductions					Annual Gross Water Use
			Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>	
10 to 15 Year Baseline - Gross Water Use								
Year 1	1995	9,216			-		-	9,216
Year 2	1996	9,861			-		-	9,861
Year 3	1997	10,326			-		-	10,326
Year 4	1998	9,574			-		-	9,574
Year 5	1999	11,396			-		-	11,396
Year 6	2000	11,364			-		-	11,364
Year 7	2001	12,505			-		-	12,505
Year 8	2002	12,654			-		-	12,654
Year 9	2003	11,941			-		-	11,941
Year 10	2004	11,841			-		-	11,841
<i>Year 11</i>	0	-			-		-	-
<i>Year 12</i>	0	-			-		-	-
<i>Year 13</i>	0	-			-		-	-
<i>Year 14</i>	0	-			-		-	-
<i>Year 15</i>	0	-			-		-	-
10 - 15 year baseline average gross water use								11,068
5 Year Baseline - Gross Water Use								
Year 1	2003	11,941			-		-	11,941
Year 2	2004	11,841			-		-	11,841
Year 3	2005	11,275			-		-	11,275
Year 4	2006	11,310			-		-	11,310
Year 5	2007	13,198			-		-	13,198
5 year baseline average gross water use								11,913
2015 Compliance Year - Gross Water Use								
2015	7,912	-			-		-	7,912

\* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3

NOTES:
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# SB X7-7 Table 4-A: Volume Entering the Distribution System(s)

Complete one table for each source.

<b>Name of Source</b>		Source 1		
<b>This water source is:</b>				
<input checked="" type="checkbox"/>	The supplier's own water source			
<input checked="" type="checkbox"/>	A purchased or imported source			
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>	<b>Volume Entering Distribution System</b>	<b>Meter Error Adjustment*</b> <i>Optional (+/-)</i>	<b>Corrected Volume Entering Distribution System</b>	
<b>10 to 15 Year Baseline - Water into Distribution System</b>				
Year 1	1995	9,216		9,216
Year 2	1996	9,861		9,861
Year 3	1997	10,326		10,326
Year 4	1998	9,574		9,574
Year 5	1999	11,396		11,396
Year 6	2000	11,364		11,364
Year 7	2001	12,505		12,505
Year 8	2002	12,654		12,654
Year 9	2003	11,941		11,941
Year 10	2004	11,841		11,841
Year 11	0			-
Year 12	0			-
Year 13	0			-
Year 14	0			-
Year 15	0			-
<b>5 Year Baseline - Water into Distribution System</b>				
Year 1	2003	11,941		11,941
Year 2	2004	11,841		11,841
Year 3	2005	11,275		11,275
Year 4	2006	11,310		11,310
Year 5	2007	13,198		13,198
<b>2015 Compliance Year - Water into Distribution System</b>				
<b>2015</b>		7,912		7,912
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				
NOTES:				



**SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD)**

Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	1995	36,536	9,216	225
Year 2	1996	37,004	9,861	238
Year 3	1997	37,420	10,326	246
Year 4	1998	37,953	9,574	225
Year 5	1999	38,686	11,396	263
Year 6	2000	39,374	11,364	258
Year 7	2001	41,996	12,505	266
Year 8	2002	42,609	12,654	265
Year 9	2003	44,202	11,941	241
Year 10	2004	45,420	11,841	233
Year 11	0	-	-	
Year 12	0	-	-	
Year 13	0	-	-	
Year 14	0	-	-	
Year 15	0	-	-	
10-15 Year Average Baseline GPCD				246
5 Year Baseline GPCD				
Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use
Year 1	2003	44,202	11,941	241
Year 2	2004	45,420	11,841	233
Year 3	2005	47,000	11,275	214
Year 4	2006	48,114	11,310	210
Year 5	2007	49,236	13,198	239
5 Year Average Baseline GPCD				227
2015 Compliance Year GPCD				
2015		50,250	7,912	141
NOTES:				

**SB X7-7 Table 6: Gallons per Capita per Day***Summary From Table SB X7-7 Table 5*

10-15 Year Baseline GPCD	246
5 Year Baseline GPCD	227
2015 Compliance Year GPCD	141

NOTES:

**SB X7-7 Table 7: 2020 Target Method***Select Only One*

Target Method		Supporting Documentation
<input checked="" type="checkbox"/>	Method 1	SB X7-7 Table 7A
<input type="checkbox"/>	Method 2	SB X7-7 Tables 7B, 7C, and 7D <i>Contact DWR for these tables</i>
<input type="checkbox"/>	Method 3	SB X7-7 Table 7-E
<input type="checkbox"/>	Method 4	Method 4 Calculator

NOTES:

**SB X7-7 Table 7-A: Target Method 1**  
20% Reduction

10-15 Year Baseline GPCD	2020 Target GPCD
246	197

NOTES:

## Method 2 Supporting Data and Calculation - updated for 2015 UWMP analysis

### Indoor Use plus Irrigation Landscapes plus Commercial, Industrial, and Institutional Use

#### Part A: Indoor Residential Water Use

GPCD

Indoor Residential Water Use Standard per Section 10608.20 (b)(2)(A)

55

#### Part B: Irrigated Landscapes

Year landscaped area installed	Accounts			Avg Irrigated area per account <sup>a</sup> , sq ft			Total LA, sq ft	SLA	Reference ETO <sup>b</sup> , in/yr	MWELO	AWA Equation	MAWA, gal/yr	Population	Landscape Water Use Target, gpcd
	SF	MF	Dedicated irrigation	SF	MF	Dedicated irrigation								
Pre 2010	17,044	221	-	2,178	3,267	8,712	37,843,839.00	--	48	1992	$=(ETO)(0.6 \frac{in}{yr})$	900,986,118.9	49,023	
2010 through 2020									48	2010	$2)[(0.7 \times LA) \frac{in}{yr}]$			
<b>Total</b>	--	--	--	--	--	--	--	--	--	--	--	900,986,119	49,023	<b>50</b>

<sup>a</sup> Average irrigated area per account is based on the following assumptions per account type:

SF pre 2010 - Average lot size is 0.25 acres with 20% irrigated landscape.

SF post 2010 - Average lot size is 0.25 acres with 10% irrigated landscape.

MF - Average lot size is 0.5 acres with 15% irrigated landscape.

Dedicated irrigation - Average irrigated area one fifth of an acre.

<sup>b</sup>Grass Valley, from Model Landscape Ordinance Appendix A

MWELO = Model Water Efficient Landscape Ordinance

MAWA = Maximum Applied Water Allowance

LA = landscaped area

SLA = special landscaped area

#### Part C: Commercial, Industrial, and Institutional (CII) Water Use

CII Baseline = Maximum 10-year rolling average=

27

10% Reduction in CII Baseline

2.7

**CII 2020 Target, gpcd**

24

Total Method 2 Target Sum of Parts A, B, and C:

129

**SB X7-7 Table 7-E: Target Method 3**

Agency May Select More Than One as Applicable	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets	Method 3 Regional Targets (95%)
<input type="checkbox"/>		North Coast	137	130
<input type="checkbox"/>		North Lahontan	173	164
<input checked="" type="checkbox"/>		Sacramento River	176	167
<input type="checkbox"/>		San Francisco Bay	131	124
<input type="checkbox"/>		San Joaquin River	174	165
<input type="checkbox"/>		Central Coast	123	117
<input type="checkbox"/>		Tulare Lake	188	179
<input type="checkbox"/>		South Lahontan	170	162
<input type="checkbox"/>		South Coast	149	142
<input type="checkbox"/>		Colorado River	211	200
<b>Target</b> <i>(If more than one region is selected, this value is calculated.)</i>				<b>0</b>
NOTES:				

## Method 4 Supporting Data and Calculation - updated for 2015 UWMP Analysis

### Base Daily Per Capita Water Use Minus Savings from Indoor Residential, Unmetered Use, CII, and Landscape and Water Loss

Equation 1

$$\text{Urban Water Use Target} = \text{Base Daily per Capita Water Use} - \text{Total Savings}$$

Note: Equations 1, 2, and 3 from DWR "Methodologies for Calculating Baseline and Compliance Urban Per Capita Use - Final Draft", release February 2016.

Equation 2

$$\text{Landscape and Water Loss per Capita Use} = \text{Base Daily per Capita Water Use} - \text{Standard Indoor Residential Use} - \text{CII Water Use}$$

Equation 3

$$\text{Total Savings} = \text{Indoor Residential Savings} + \text{Metering Savings} + \text{CII Savings} + \text{Landscape and Water Loss Savings}$$

#### Equation 2 - Landscape and Water Loss

Base Daily per Capita Water Use	246 GPCD
Standard Indoor Residential CII Water Use	70 GPCD 27 GPCD
Landscape and Water Loss per Capita Use	149 GPCD

#### Equation 3 - Total Savings

<b>Indoor Residential Savings</b>	
BMP calculator or 15 GPCD	15 GPCD
<b>Metering Savings</b>	
Unmetered deliveries	0 GPCD
20 percent of unmetered deliveries	0 GPCD
<b>CII Savings</b>	
10% of CII baseline water use	3 GPCD
<b>Landscape and Water Loss Savings</b>	
21.6% of Landscape and Water Loss per capita use	32 GPCD
<b>Total Savings</b>	50 GPCD

#### Equation 1 - Urban Water Use Target

Urban Water Use Target	196 GPCD	Base Daily per Capita Water Use minus Total Savings
------------------------	----------	---

**SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target**

5 Year Baseline GPCD From SB X7-7 Table 5	Maximum 2020 Target <sup>1</sup>	Calculated 2020 Target <sup>2</sup>	Confirmed 2020 Target
227	216	197	<b>197</b>

<sup>1</sup> Maximum 2020 Target is 95% of the 5 Year Baseline GPCD  
<sup>2</sup> 2020  
 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and  
 corresponding tables for agency's calculated target.

NOTES:



**SB X7-7 Table 8: 2015 Interim Target GPCD**

Confirmed 2020 Target <i>Fm SB X7-7 Table 7-F</i>	10-15 year Baseline GPCD <i>Fm SB X7-7 Table 5</i>	<b>2015 Interim Target GPCD</b>
197	246	<b>222</b>

NOTES:

SB X7-7 Table 9: 2015 Compliance

Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments <i>(in GPCD)</i>					2015 GPCD <i>(Adjusted if applicable)</i>	Did Supplier Achieve Targeted Reduction for 2015?
		Enter "0" if Adjustment Not Used			TOTAL Adjustments	Adjusted 2015 GPCD		
		Extraordinary Events	Weather Normalization	Economic Adjustment				
141	222	-	-	-	-	141	141	YES

NOTES:

## **Appendix H: Stormwater Policy**

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# Nevada Irrigation District

## POLICY MANUAL

**POLICY TITLE:** Storm Water

**POLICY NUMBER:** 6655

Storm water is an ongoing concern for the District because District facilities are not intended to operate as a storm water conveyance system. The District owns and maintains over 450 miles of open canals that cross through and adjacent to numerous watersheds with natural and man-made water conveyance areas. District facilities are vulnerable to storm water intrusion from both natural and manmade conveyance systems.

The District is not a storm water utility and has not accepted the responsibility of planning, regulating, and permitting as required for the management and disposal of storm water.

District canals and the related facilities such as culverts are designed and constructed to accommodate District managed water supplies, plus some limited intrusion flow. These facilities are not designed to accommodate the additional capacity a full watershed contributes during a storm event.

As future development increases and impacts of climate change are realized, the quantity and intensity of storm water will be an ongoing and increasing issue. It is the District's desire that water should, whenever possible, stay within the watershed of origin except where the District exercises its water rights to transport waters. The intent of this policy is to establish a District-wide approach to reduce the impacts of storm water on District facilities as well as parties adjacent to District facilities.

- 6655.1** The District will proactively pursue modification, mitigation, and remediation within the development planning process, zoning changes, and other service related requests to require the management of storm water generated by projects to ensure that water is not directed, directly or indirectly, into District facilities.
- 6655.2** The District will work to reduce and/or eliminate the discharge of storm water into existing facilities. The focus will be to divert storm water away from District facilities and allow storm water to remain in its natural channel and parent watershed.
- 6655.3** The District will attempt to minimize facility interferences on natural watershed systems.
- 6655.4** The District will, as necessary, intervene in projects that could or can influence District facilities, to request proper collection and disposal of storm water.

- 6655.5** The District will design culverts, canals, and appurtenant structures to meet design flows for District operations with an additional 25 percent capacity for unanticipated flows, or as modified by the Engineering Manager, but shall not permit the system to be used for the intentional conveyance of storm water.
- 6655.6** The District will engage and require local and state governments to handle and mitigate impacts to District facilities by storm water.

## **Appendix I: CABY Climate Change Table**

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**Table 11-2**  
**Climate Vulnerabilities and Strategies to Increase Climate Resiliency**

	Summary of Modeling Results and Relevant Studies		Vulnerabilities Identified by Stakeholder Group	Existing and Future Strategies to Address Vulnerabilities	Examples Of Existing and Proposed Projects That Can Help the Watershed Increase Climate
Potentially Affected Natural Resources	<b>Forest and Rangeland Vegetation</b>	Future vegetation modeled scenarios show an increase in and general upslope movement of warm temperate/subtropical mixed forest, largely displacing boreal conifer forest, less tolerant of heat and drought. Vegetation communities at the highest elevations in the region become more complex in variety and generally more drought tolerant. An increase in future biomass is also projected.	-Poor habitat condition of some forest habitat and areas of rangeland in the watershed make them more susceptible to increased fire risk under potentially hotter and drier climate conditions, and make habitat less resilient in supporting native wildlife species.	-Enact strategic forest management: It increases resiliency to longer fire seasons and bark beetle outbreaks (Flannigan 2000). In stand improvement projects and revegetation efforts, Tahoe National Forest (TNF) considers favoring or planting different species and species mixes. Where appropriate and based on anticipated changes, white fir could be favored over red fir, pines would be preferentially harvested at high elevations over fir, and species would be shifted upslope.	-Coordinate between and within management agencies to better address clear management goals (Reiman 2010). Steps to more successfully integrate the management of forests, fires, watersheds, and native fishes into regional and project-scale planning should include communication among disciplinary scientists with a clear definition of management goals.
		Increased fire severity and intensity is predicted for the Sierra Nevada by the latter part of the century, with more frequent fires and more area consumed by fires (Lenihan 2008; Westerling 2008). Catastrophic wildfire in particular is projected to become more frequent and more severe in coming decades.	-Increased fire severity will both amplify and accelerate the ecological impacts of climatic change (Flannigan 2000).	-TNF is strategically managing for process rather than structure or composition in proposed projects (e.g., those involving succession after fires, where novel mixes of species and spacing may reflect natural dynamic processes of adaptation).	-Strategies implemented to reduce fuels and minimize chances of catastrophic fires are increasing the adaptability and resilience of the Tahoe National Forest (TNF). For example, the Western Nevada County Community Defense Project is strategically located on the landscape near Grass Valley, Nevada City, and other small communities to reduce small-diameter fuels and surface fuels that will decrease the impacts from wildfire. The second project phase would treat fuels over a broader geographical area.
		Future regional climate is likely to favor certain invasive species, such as cheat grass. Additional invasive species act as stressors on native species that, when combined with lower flows, or erratic flow regimes more likely with greater climate variability, can cause decreased viability for desired species.	-Decreased species variability within natural systems could result in degraded habitat for native species and economic losses for agricultural producers and recreation-related businesses. -Invasive species expansion often results in a higher, more flammable fuel load (Brooks, 2004) and often more shallow-rooted and quick-lived, a contributing factor to mass wasting events and excessive sedimentation in general (TetraTech EC, Inc. 2007).	-Implement fuels management/reduction in watersheds where a high vulnerability exists to critical water sources. Where possible, mix selective harvest and prescribed fire to best mimic natural forest management (Schwilk 2009). -Maintaining a forest at full ecological function recharges groundwater and provides for more resiliencies regionwide. -Use integrated pest management on terrestrial noxious weed species, including: prioritization of most effective strategies; mechanical, chemical, and grazing treatments; revegetation; and monitoring to improve water quality and habitat condition. -Participate in statewide pest detection programs. The region is close to the state border and hosts two major national freeways going east-west across the Sierra Nevada.	

Potentially Affected Natural Resources	<p><b>Species and Habitat</b></p>	<p>The Sierra Nevada is identified in its entirety as an important climate refugia by the Endangered Species Coalition. The region is particularly vulnerable to climate change, and represents a significant bio-region for plant and animal species survival.</p> <p>The region is also host to myriad species of special concern that may be climate-sensitive (e.g., are wetland-dependent, or occupy elevational niches projected to be affected). Climate-sensitive populations of flora and fauna in the region include: whitebark pine, vernal-pool-dependent rare plant populations, and wetlands or small ponds (such as the Pierce Wetland Area on the Tahoe National Forest) and pika, alpine chipmunks, Lahontan cutthroat trout.</p> <p>Habitat is currently fragmented in lower elevations by roads and urban development, and in the higher elevations primarily by Highways 80 and 50.</p>	<ul style="list-style-type: none"> <li>-Sedimentation associated with higher potential for intense storms could affect aquatic species' reproductive cycles and habitat quality.</li> <li>Imperiled species confronted by other stressors could be particularly affected by climate change.</li> <li>-While quantified environmental surface flows exist throughout the region, extreme drought could negatively affect riparian habitats, species viability, and increase conflicts between human and environmental needs.</li> <li>-Drought and/or growing demand coupled with climate variation could dry up or fragment these biologically productive wetland habitats.</li> <li>-Increased nighttime and winter temperatures are expected to increase the population and distribution of bark beetle, canker diseases, dwarf mistletoe, and root diseases (Kliejunas 2011). It is likely that this will also have a negative effect on regional fire cycles by increasing the fuel load from dead trees.</li> <li>-The timing of water availability will threaten life cycles that have evolved with the natural timing of snowmelt recession (Yarnell et al. 2010).</li> <li>-Climate-induced changes in fire behavior and frequency will affect species distribution, migration, and extinction (Flannigan 2000).</li> <li>-Animals and plants dependent upon boreal forests will likely become more vulnerable because the warming trend will force them higher in elevation where habitat may be less suitable.</li> <li>-The region may offer refugia for wildlife if other suitable habitat is lost to sea-level rise.</li> </ul>	<ul style="list-style-type: none"> <li>-Maintain/enhance species and structural diversity and the redundancy of ecosystem types across a landscape</li> <li>Maintain/create refugia, for at-risk populations or unique sites.</li> <li>-Reduce existing stressors (e.g.: unhealthy levels of sedimentation or invasive species).</li> <li>-Sustain and promote fundamental ecological forest functions/services (e.g.: soil quality and nutrient cycling, hydrologic cycling, and riparian zones).</li> <li>-Identify and prioritize habitat corridors essential to wildlife migration.</li> <li>-Prioritize needs for aquatic habitat connectivity; provide in-stream barriers to invasive species, where appropriate; prioritize wetland, vernal pool, and riparian restoration; maintain healthy aquatic systems or create water developments to support key species; promote activities that increase stream shading and flow attenuation, such as meadow restoration; adopt best management practices that reduce channel alteration and sedimentation; and determine where infrastructure replacements can be most meaningful (e.g., culvert and bridge projects that increase connectivity, reduce barriers).</li> <li>Enhance genetic diversity, potentially including introduction or enhancement of genotypes better adapted to future conditions (such as trees with higher levels of oleoresin).</li> <li>-Work with major transportation providers throughout the region to ensure adequate ecosystem permeability and wildlife passage of major roadways – particularly four-lane roadways.</li> </ul>	<ul style="list-style-type: none"> <li>-Create a list of all climate-sensitive populations of flora and fauna in the CABY region and identify potential adaptation strategies that stakeholders could help to implement; assess those strategies for cost, risk, and benefit and prioritize based on the outcome.</li> <li>-Restore wet meadow and/or spring habitats to improve shallow groundwater storage, increase summer base flows, improve in-stream-habitat diversity, and create a vegetation community within the meadow dominated by species adapted to moist soil conditions.</li> <li>-Monitor spring melt dates, bud burst dates, and pollinator availability.</li> <li>-Monitor and quantify the rate of mercury methylation.</li> </ul>
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Potentially Affected Communities	<b>Flooding</b>	<p>Increased flood potential is projected under many climate scenarios because higher temperatures cause earlier snowmelt and an increase in the ratio of precipitation arriving in the form of rainfall versus snow. However, higher-elevation snow levels may reduce the potential for winter floods because less snowpack may fall that can be mobilized. Peak daily flows are expected to increase even under scenarios with reduced precipitation overall.</p>	<ul style="list-style-type: none"> <li>-A lack of coordinated approach to flooding management and response may compound flood impacts and increase risk to public safety.</li> <li>-Need exists for a clearer definition of flooding risk to all areas within FEMA mapping zones.</li> <li>-Extreme flood events could have substantial negative effects on aging infrastructure, including water supply, transportation, hydropower, and water treatment facilities.</li> <li>-Increased risk of wildfires could result in mass wasting events (connected with flood events) similar to the massive landslide that closed Highway 50 for four weeks in 1997.</li> <li>-More reliable gauging and telemetry on streams is needed to provide advance notice to developed areas in flood-prone zones.</li> </ul>	<ul style="list-style-type: none"> <li>-Prepare and coordinate management response for extreme weather events at greater frequency.</li> <li>-Work within the CABY region membership as well as with relevant State agencies to identify better flood management practices, including data tracking and communication and updated land use policies (development patterns, attenuation, and infiltration).</li> <li>-Identify risk areas for mass slumping and target fuels management efforts.</li> <li>-Update flood maps for communities in the region as updated information becomes available.</li> <li>-Increase infiltration rates in urban areas to combat localized flooding and improve or decommission roads to reduce flooding impacts.</li> </ul>	<ul style="list-style-type: none"> <li>-Improve the reliability and accessibility of gauging and telemetry on streams and rivers upstream from flood-prone areas during flood events.</li> <li>-Implement low- impact design principles to reduce flooding within proposed development.</li> </ul>
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Potentially Affected Communities	<p><b>Water Demand</b></p>	<p>Projected population growth, especially in the foothills of the Sierra Nevada and along the major Sierra highways (Highways 50 and 80) exceeds average growth rates for the Bay Area and California as a whole, fueling demand for water and other natural resources. Vulnerabilities could be affected to a greater or lesser degree when correlated with overall population growth, and specific patterns of growth.</p> <p>Regional groundwater supplies represent a significant resource used by individuals outside water service areas for residential potable water use.</p> <p>Agricultural water demands are expected to increase overall with gradual warming, increased evapotranspiration, and decreased soil moisture.</p>	<p>-Major industries and institutions requiring heating and cooling could be affected as average temperatures increase, both economically and by potential losses of power.</p> <p>-As California's 20x2020 demand reduction targets are achieved, water use curtailment will be more difficult especially in areas that have already installed meters and implemented tiered commodity rate structures.</p> <p>-In-stream flow requirements could be affected, especially where FERC relicensing processes didn't account for the effects of climate change.</p> <p>-Naturally flowing streams (without in-stream flow reservations) may be even more vulnerable to drawdown during low flows.</p> <p>-Regional groundwater levels may decrease with warming and drying conditions.</p> <p>-Agricultural use could increase due to increasing temperatures and lower summer precipitation.</p> <p>-Groundwater is used for potable supply outside water service areas. Local fractured geology makes groundwater resources particularly vulnerable to drying/drought.</p>	<p>-Examine environmental needs in the face of a changed hydrologic regime.</p> <p>-Pursue sharing supplies across the CABY region.</p> <p>-Identify opportunities for conjunctive use.</p> <p>-Identify opportunities to sell water in or outside the CABY region in years where local supply exceeds local demand, for additional funds to be used within the CABY region.</p> <p>-Identify alternative crops that will grow well in a changed hydrologic cycle and temperature regime, consider use of drip irrigation, and recycled water.</p> <p>-Invest in upgrading infrastructure to maximize efficiency and flexibility and to reduce waste.</p> <p>-Locate water 'service stations' in areas where residential wells are likely to go dry.</p>	<p>-Peak use can be lowered by using pricing strategies – this has been successful for water purveyors throughout the CABY region using a conservative baseline for indoor use and ascending block rates for outdoor use.</p> <p>-Invest in distribution system interties and replacement of aged pipelines to maximize efficiency and reduce waste.</p> <p>-Water agencies provide efficiency services to domestic, municipal, and agricultural customers.</p> <p>-Resource Conservation District programs to upgrade efficiency of irrigation systems.</p>
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Potentially Affected Communities	<b>Water Supply</b>	<p>Warming temperatures, earlier snowmelt, greater rain:snow ratio, relatively stable projected regional precipitation, and more intense storm events could affect surface water supply.</p> <p>Establishing an <i>annual</i> tie between groundwater elevations and climate in the region is difficult because of localized factors of drawdown, geology/recharge, and tapping into groundwater subbasins by others beyond the watershed. However, PG&amp;E's and PCWA's long-term studies of streamflow fed by underground aquifers have indicated a correlation between long-term drought and decreased groundwater elevations.</p>	<ul style="list-style-type: none"> <li>-Reduced reliable water supply for people and wildlife through late summer and autumn, especially in areas of projected population growth.</li> <li>-Potential inability for water agencies to meet in-stream flow obligations.</li> <li>-Potential for reduced carryover storage capacity, especially during multi-year drought. Some smaller water agencies have limited or no carryover storage and must curtail demand even during mild drought periods.</li> <li>-The CABY region is a contributor to Delta flows with no reciprocal access to Delta supplies. The negotiated outcome of Delta sustainability and management may have an effect on the way water is managed and may reduce supply in the CABY region.</li> <li>-Area-of-Origin water rights are an important supply cornerstone for CABY stakeholders and will be important as the region looks at climate change effects throughout the state.</li> <li>-Reduced growing-season irrigation supplies for area agriculture.</li> </ul>	<ul style="list-style-type: none"> <li>-Recruit more complete information on snowpack and hydrology, including real-time data tracking.</li> <li>-Examine forest management strategies to increase snowpack/water retention</li> <li>-Increase the capacity of the landscape to retain water, replacing, in part, a decreased snowpack (e.g., meadow restoration and soil conservation).</li> <li>-Diversify storage opportunities to add system flexibility – think of 'storage' as a network including snowpack, forest soils and constructed infrastructure.</li> <li>-Continue to explore opportunities to enhance storage.</li> <li>-Conduct leak detection, pipeline repair/ replacement and meter calibration.</li> <li>-Many CABY water agencies are participating in the USBR Sacramento-San Joaquin River Basin studies to evaluate storage needs and sites in the region, based on climate.</li> <li>-Pursue additional water rights.</li> <li>-Explore and support opportunities for conjunctive use.</li> <li>-Invest in improved efficiency of water conveyance and distribution systems.</li> <li>-Increase levels of water conservation among customers and the general public.</li> <li>-Continue to monitor water systems for aquatic invasive species (AIS).</li> </ul>	<ul style="list-style-type: none"> <li>-Where not already implemented, provide fee incentives for customers who meet residential conservation objectives.</li> <li>-Implement groundwater management plan objectives.</li> <li>-Consider changes in reservoir operations.</li> <li>-Add capacity to existing dams.</li> <li>-Invest with partner interests in improved hydrologic and meteorological monitoring of CABY watersheds.</li> <li>-Educate small water-rights holders on potential effects of climate change and how the region might collaboratively respond.</li> </ul>
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Potentially Affected Communities	<b>Water Quality</b>	<p>Reductions in flow, timing and intensity of runoff, and heating of air temperatures associated with climate change could affect water quality. Three main water quality concerns exist in the region: 1) increases in water temperature, 2) the potential for increased organics content in municipal water sources due to vegetation, and 3) how increased water temperatures might affect the rate of mercury methylation.</p>	<ul style="list-style-type: none"> <li>-Beneficial uses designated in the CABY region could be more difficult to meet.</li> <li>-Water quality shifts occur during extreme storm events can affect treatment facility operation, as in the case of Grass Valley.</li> <li>-Increased water temperature could affect aesthetics of municipal water supply.</li> <li>-Sediment can negatively affect treatment facilities. Low flows may hinder dilution of pollutants.</li> <li>-Increased water temperatures could increase levels of mercury methylation throughout the CABY region. This has been identified by the CABY PC as an issue for further investigation and potential modeling.</li> <li>-Stream temperature has shown to be moderately affected increased fire activity; this may particularly affect aquatic species because of their inability to monitor body temperature, and confined, easily fragmented habitat (Isaak 2010).</li> <li>-Eutrophication can increase in summer and especially if exacerbated by low flows and higher water temperature.</li> </ul>	<ul style="list-style-type: none"> <li>-Increase the capacity of the landscape to absorb and filter water.</li> <li>-Preserve and/or restore, where appropriate, riparian vegetation to control water temperature for aquatic biota.</li> <li>-Identify 303(d)-listed waters that may become more challenging to manage under future climate scenarios), and work with agencies to develop management strategies and projects/actions that address impacts.</li> <li>-Identify places where the assimilative (dilution of contaminants) capacity of streams and rivers may be at risk and monitor those areas.</li> </ul>	<ul style="list-style-type: none"> <li>-Implement a more intensive network of real-time water quality and water level tracking to identify when storm flows may be testing water treatment capacity and/or infrastructure.</li> <li>-Implement regional storm water control infrastructure.</li> </ul>
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Potentially Affected Communities	<b>Infrastructure</b>	<p>Hydrologic changes are projected to include altered flows, changes in seasonal flows (e.g., earlier runoff) and greater extremes in storm events. A greater rain:snow ratio is projected, and melt dates will likely be earlier, indicating a longer dry season. Some extreme events in the past have tested the capacity of regional infrastructure (such as near overtopping events in the floods of 1997), and it is likely that these extreme events will occur more often.</p> <p>Much of the region's infrastructure is either antiquated, in poor repair, or in the case of water delivery and storage and flood flows, designed for historic flow regimes.</p>	<ul style="list-style-type: none"> <li>-Historic water Infrastructure design and management coupled with rules in place for reservoir and other infrastructure operations may not adequately respond to altered flows and intense flow events.</li> <li>-Planning for longer-term drought is limited to historic extreme events.</li> <li>Extended duration of extremes due to climate is difficult to account for, which could compromise delivery capacity, customer capacity, and financial stability of water purveyors.</li> <li>-Aquatic invasive species could become an issue as climate change alters the region's water temperature and chemistry (pH and TDS), and thus clog or damage facilities.</li> <li>-All reservoirs are in forested areas susceptible to fire, and therefore at risk of damage and increased sedimentation load in the event of intense post-fire precipitation.</li> <li>-Hydropower facilities could be challenged by increased sediment loads/decreased reservoir capacity and increased levels of wear on equipment.</li> </ul>	<ul style="list-style-type: none"> <li>-Locate system interties where small systems and disadvantaged communities can more easily hook into a larger system's supply.</li> <li>-Locate water 'service stations' in areas where residential wells are likely to go dry.</li> <li>-Expand treated and raw water infrastructure to underserved areas.</li> <li>-Add infrastructure to facilitate conjunctive use.</li> <li>-Invest in upgrading infrastructure to maximize efficiency and reduce waste.</li> </ul>	<ul style="list-style-type: none"> <li>-Upgrade aged infrastructure to improve efficiency.</li> <li>-Add infrastructure to augment distribution and conveyance system efficiency and flexibility.</li> <li>-Increase existing water storage facility size.</li> <li>-Research and implement strategies to manage increased sedimentation rates in reservoirs.</li> <li>-Implement regional stormwater control infrastructure.</li> <li>-Invest in distribution system interties and replacement of aged pipelines to maximize efficiency and reduce waste.</li> </ul>
Potentially Affected Economic Interests	<b>Hydropower Generation</b>	<p>Hydropower represents a significant source of electricity in the CABY region. Continued change from snowfall to rainfall is anticipated to begin having a cumulative effect on hydroelectric production by about 2020 to 2025.</p> <p>Energy needs have decreased on a per capita basis over the last several decades due to increases in the efficiencies of appliances and conservation. However, an increasing population indicates that energy use will grow in the future.</p>	<ul style="list-style-type: none"> <li>-With less predictable runoff periods and potentially more intensive storm events, hydroelectric generation may become less reliable, and management will be more challenging and may involve competing with other storage needs, such as flood control and natural system needs.</li> <li>-The results of a warming scenario WEAP modeling suggested a low degree of warming is sufficient to significantly alter historical inflows into regional reservoirs, with a concomitant reduction in hydropower generation – between 5% and 20% losses, depending on the degree of warming – by the end of this century (Mehta et al. 2011).</li> </ul>	<ul style="list-style-type: none"> <li>-Identify opportunities for development of solar and wind energy projects to ensure multiple benefits to the region, and also benefit habitat, wildlife, and agricultural uses (grazing opportunities).</li> <li>-Increase the diversity of hydropower projects (e.g., micro-hydro, small hydro, or pumped storage), particularly those with little or no negative in-stream impacts.</li> <li>-Hydro generation managers may increase storage in the winter in anticipation of critical summer needs and subsequently with the need to spill in order to accommodate wet winter or intensive storm flows.</li> </ul>	<ul style="list-style-type: none"> <li>-Explore and fund small hydropower generation opportunities in existing water and wastewater conveyance systems.</li> <li>-Investing in continued efficiencies in hydropower generation by upgrading equipment and operations.</li> </ul>

Potentially Affected Economic Interests	Wood Products Industry	Potential climatic changes are expected to shift forest types and species mixtures within the watershed.	-The changing conditions may continue to render forests susceptible to insect invasion and fire, which may in turn create a greater need for thinning.		-Continue to explore environmentally acceptable and economically feasible ways of producing and using power from biomass.
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Potentially Affected Economic Interests	<b>Local Communities</b>	<p>The amount of burned property (in total area and in monetary value) in Northern CA increases substantially under global climate models' high-emissions scenarios due to greater fire risk. This is highly evident in Placer County (Westerling 2008).</p> <p>Sea level rise is not a direct issue for the CABY region, but does pose potential indirect effects on communities.</p>	<ul style="list-style-type: none"> <li>-Costs for increases in fire occurrence and severity will need to be paid for, either through landscape-level forest/fuels management, or through fire-fighting activities.</li> <li>-Secondary effects of increased fire, such as loss of recreational amenities, area closures, and excessive smoke, can have serious financial effects on local economies.</li> <li>-Incorporated communities have sufficient infrastructure and capacity to fight fires, while rural communities typically have very limited resources. Catastrophic wildfires have the potential to surround, encroach into, or overwhelm all local communities.</li> <li>-Population influx from coastal areas affected by sea level rise could impact regional land use patterns and water demand and supply.</li> <li>-The impact of sea level rise on the Delta is forcing the state to look upstream, for solutions to water-producing regions, including CABY. This could lead to potential changes to infrastructure, operations, and water rights in the CABY region because of the Delta's vulnerability to environmental change and water transfer capability.</li> </ul>	<ul style="list-style-type: none"> <li>-Enact strategic forest management: It increases resiliency to longer fire seasons and bark beetle outbreaks (Flannigan 2000).</li> <li>-Implement fuels management/reduction in watersheds where a high vulnerability exists to critical water sources. Where possible, mix selective harvest and prescribed fire to best mimic natural forest management (Schwilk 2009).</li> <li>-Maintaining a forest at full ecological function recharges groundwater and provides for more resiliencies regionwide.</li> <li>-Use integrated pest management on terrestrial noxious weed species, grazing treatments; revegetation; and monitoring to improve water quality and habitat.</li> <li>-Monitor changes in development patterns and water use from areas affected by sea level rise to prepare for potential impacts to the region over time.</li> <li>-Actively participate in regional discussions focused on modifications of source-water systems that may be proposed to protect the Delta from the impacts of sea-level rise.</li> </ul>	
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Potentially Affected Economic Interests	<b>Agriculture</b>	<p>More frequent drought, the drying effects at upper elevations from earlier snowmelt, potential variation in storm events, greater variability in temperatures, and more intense storm events could potentially affect agriculture.</p>	<ul style="list-style-type: none"> <li>-Peaches, grapes, cherries, mandarin oranges, and berries are heat-sensitive crops that can also be susceptible to unseasonable precipitation.</li> <li>-Non-irrigated agriculture – grazing and dryland hay – may be the most vulnerable to projected climate changes.</li> <li>More frost-free and growing-degree days could benefit some crop production and local agricultural profits, and could affect the current crop mix.</li> <li>-Reduced flows and groundwater recharge alongside increased demand in a warming climate could negatively affect agricultural water supply (Mehta et al. 2011; Regional Water Management Agency 2013).</li> <li>-Irrigation inefficiencies reduce overall water supply, both for agriculture and other beneficial uses.</li> </ul>	<ul style="list-style-type: none"> <li>-Protect the agricultural land base and designate a portion of the water supply to agriculture to provide farmers with the assurance they need.</li> <li>-Work with University of California Extension, local agricultural commissions, and farm bureaus to identify potential changes in crop patterns to adapt to potential changes in climate.</li> <li>-Increase efficiency of irrigation practices and systems.</li> <li>-Explore opportunities for conjunctive use of water supplies.</li> </ul>	<ul style="list-style-type: none"> <li>-Water agencies provide efficiency services to domestic, municipal, and agricultural customers.</li> <li>-Identify alternative crops that will grow well in a changed hydrologic cycle and temperature regime, consider use of drip irrigation and recycled water.</li> <li>-Resource Conservation District programs to upgrade efficiency of irrigation systems.</li> </ul>
Potentially Affected Economic Interests	<b>Recreation</b>	<p>Climate projections of potential greater storm intensity and variability may impact recreational infrastructure and fish and game species.</p>	<ul style="list-style-type: none"> <li>-Most rafting flows have been set by FERC licenses, but projected low flows may not be sufficient to sustain current-day recreational pursuits/timing.</li> <li>-Insufficient flows for boating and whitewater rafting due to climatic shifts could have negative financial effects on regional businesses and local economies.</li> <li>-Forest infrastructure such as bridges, culverts, campgrounds, and roads may be damaged by increased variation in flows, while recreational game fish species may be negatively affected by diminished water quality.</li> <li>-Forage for big game species may be affected by increased invasive species, but these species may benefit from milder winter temperatures and increased localized forage.</li> </ul>	<ul style="list-style-type: none"> <li>-Identify opportunities to adjust to changing hydrology, if necessary, to maintain recreational opportunities.</li> <li>-Identify and develop recreation enhancement plans responsive to changing conditions.</li> <li>-Assess public agency road inventories for hot spots of sediment delivery and correct; conduct bridge and culvert inventory to replace undersized or failing infrastructure; reassess flood risk and establish recreational facilities out of potentially elevated peak flows.</li> </ul>	<ul style="list-style-type: none"> <li>-Augment water storage infrastructure to provide recreational values while meeting other beneficial uses.</li> <li>-Use improved modeling, forecasting and communication tools to facilitate recreational use of water resources.</li> </ul>

## **Appendix J: Drought Contingency Plan**



# **NEVADA IRRIGATION DISTRICT**

## **Drought Contingency Plan**

(Adopted by the Board of Directors, November 18, 2015)

The purpose of the Nevada Irrigation District's Drought Contingency (Plan) is to provide guidance to staff and customers to help minimize drought or water supply shortage impacts. The plan identifies drought action levels, appropriate agency responses, water demand reduction goals, and provides recommended demand management measures to assist customers in water conservation.

The District currently supplies about 150,000 acre feet (AF) of water for all classes of customers, and has non-recoverable in stream flow requirements of 7,700 AF. Historically, 7,500 AF of water is purchased from PG&E annually and is required to provide reliable flows in the system and meet District operational needs. The District has determined 78,000 AF of carry over storage to be the minimum amount of water that the District will endeavor to hold over from water season to water season for the health and safety of the District domestic and agricultural water users. The minimum carryover amount will be evaluated every five years and will be updated as deemed necessary by the District.

Prior to the beginning of the irrigation season, but no later than the first board meeting in April, the District will evaluate its forecasted water supply to determine what water supply stage will apply during the year. In order to effect the most current information the March snow survey results, current reservoir levels, forecasted runoff, and availability of PG&E contract water (Contract) will be analyzed to make a preliminary determination of the District's water supplies

The mandatory reduction measures implemented through this plan are designed to preserve minimal supplies for public health and safety. Mandatory reduction stages will trigger the formation of the Drought Hardship Committee whose purpose is to review hardship applications and determine whether additional water can be provided to the applicants with an economic hardship and/ or those utilizing best management practices.

In the event the State Water Resources Control Board imposes regulations that differ from the regulations in this plan, the District may impose additional mandated restrictions through the resolution process to comply.

Water Availability Guidance				
	Forecasted Available Supply April 1st	Demand Reduction Targets	Operational Changes	Rate Changes
<b>Normal Operations</b>	> 235,700	Encourage Conservation	Normal Operation	Standard Rates
<b>Stage 1</b>	235,700 to 205,700	10 – 20% Voluntary Usage Reduction	<ul style="list-style-type: none"> <li>• Leak repair receives higher priority</li> <li>• Increase public outreach and drought awareness</li> <li>• Target 75% of end of month October storage for carryover.</li> </ul>	Standard Rates
<b>Stage 2</b>	205,700 to 198,200	10 – 25% Mandatory Usage Reduction	<ul style="list-style-type: none"> <li>• Communicate mandatory reduction targets to retail customers</li> <li>• Purchase of available Contract water to achieve a target carryover of 90,000 acre feet</li> <li>• Distribution system flushing only for public health &amp; safety</li> <li>• Organize Drought Hardship Committee</li> </ul>	<ul style="list-style-type: none"> <li>• Implement Contract water purchase rates to reimburse the District for the costs associated with purchase of water above the 7,500 acre feet for normal operational needs. Charges to be reimbursed through the appropriate funding mechanisms. Water purchased will be utilized to meet carryover target.</li> </ul>
<b>Stage 3</b>	198,200 to 175,700	25 - 40% Mandatory Usage Reduction	<ul style="list-style-type: none"> <li>• Purchase of available Contract water to achieve a target carryover of 80,000 acre feet</li> </ul>	<ul style="list-style-type: none"> <li>• Implement Contract water purchase rates</li> <li>• Implement Conservation Rates as established in the Districts Rate Schedule</li> </ul>
<b>Stage 4</b>	<175,700	> 40% Mandatory - Reductions based on available allotment and target carryover.	<ul style="list-style-type: none"> <li>• Purchase full allotment of Contract water to achieve target carryover of 78,000 acre feet</li> </ul>	<ul style="list-style-type: none"> <li>• Implement Contract water purchase rates</li> <li>• Implement Conservation Rates as established in the Districts Rate Schedule</li> </ul>

**Stage 1**  
**(Voluntary 10 to 20%)**

**Treated Water and Municipal Water Customer Reduction Actions**

- Customers shall comply with the Conservation Regulations as spelled out in section 3.05 of the Districts Rules and Regulations
- Request restaurant owners to only serve water upon request
- Limit fire department practice drills and flow testing of hydrants

**Ag Water Reduction Actions**

- Allow Ag customers to voluntarily reduce purchase allotment for the year while reserving their right to return to their previous purchase allotment in the following year if water supply is available
- Declare no new or increased Surplus water availability
- Limit new raw water sales and increases to 1 miners inch

**District Actions**

- Increase public outreach to inform customers of reduction targets
- Target 75% of historical end of month October storage for carryover.
- Limit District flushing program to areas required by regulation or as needed for public health and safety
- District leak repair receives higher priority
- Inform Municipal customers of the reduction targets

**Stage 2**  
**(Mandatory 10 – 25%)**

All of Stage 1 recommendation shall remain in place, except where they are replaced by more restrictive actions in this stage

**Treated Water and Municipal Water Customer Reduction Actions**

- Customers shall limit outdoor water use to every other day
- Customers shall adjust outdoor water timers to reduce each watering zone by the target reduction percentage (10 - 25%)
- Large landscapes with treated water accounts shall reduce their usage by the target reduction percentage (10 - 25%)
- Corresponding with the fall daylight savings time change, customers shall limit outdoor watering to 1 day a week.
  - Saturdays for even addresses and Sundays for odd addresses.

**Ag Water Reduction Actions**

- Declare no Surplus water availability to outside District customers
- Limit new raw water sales and increases to ½ miners inch
- Impose Irrigation season delivery alternatives with a target reduction of 10 - 25%
- Declare no new or increase fall or winter water sales

**District Actions**

- Inform Municipal customers of the reduction targets of 10 - 25%
- Purchase available Contract water to achieve a minimum target carryover storage of 90,000 acre feet for the end of October
- Implement Contract water purchase rates through the appropriate funding mechanism to cover procurement costs
- Organize Drought Hardship Committee



**Stage 3**  
**(Mandatory 25 – 40%)**

All of Stage 2 restrictions shall remain in place, except where they are replaced by more restrictive actions in this stage

**Treated Water and Municipal Water Customer Reduction Actions**

- Outdoor watering shall be limited to three days a week
  - Customers with an even - numbered street address shall limit watering to Tuesday, Thursday, and Saturday.
  - Customers with an odd - numbered street address shall limit outdoor watering to Wednesday, Friday, and Sunday
- Customers shall adjust outdoor water timers to reduce each watering zone by the target reduction percentage (25 - 40%)
- Large landscapes with treated water accounts shall reduce their usage by the target reduction percentage (25 - 40%)
- Irrigation of ornamental turf on public street medians with potable water shall be prohibited

**Ag Water Reduction Actions**

- Declare no Surplus water availability
- Declare no new or increased Ag water sales
- Impose Irrigation season delivery alternatives with a target reduction of 25 - 40%
- Declare no fall water availability

**District Actions**

- Purchase available Contract water to achieve a minimum target carryover storage of 80,000 acre feet for the end of October
- Dedicate additional staff hours for water waste notification and patrolling
- Implement conservation rates as established in the Districts rates schedule

## **Stage 4**

### **(Mandatory > 40%)**

All of Stage 3 restrictions shall remain in place, except where they are replaced by more restrictive actions in this stage

#### **Treated Water and Municipal Water Customer Reduction Actions**

- Outdoor watering shall be limited to two days a week
  - Customers with an even – numbered street address shall limit outdoor watering to Wednesday and Saturday.
  - Customers with an odd - numbered street address shall limit outdoor watering to Thursday and Sunday
- Customers shall adjust outdoor water timers to reduce each watering zone by the target reduction percentage (40%)
- Large landscapes with treated water accounts shall reduce their usage by the target reduction percentage (>40%)

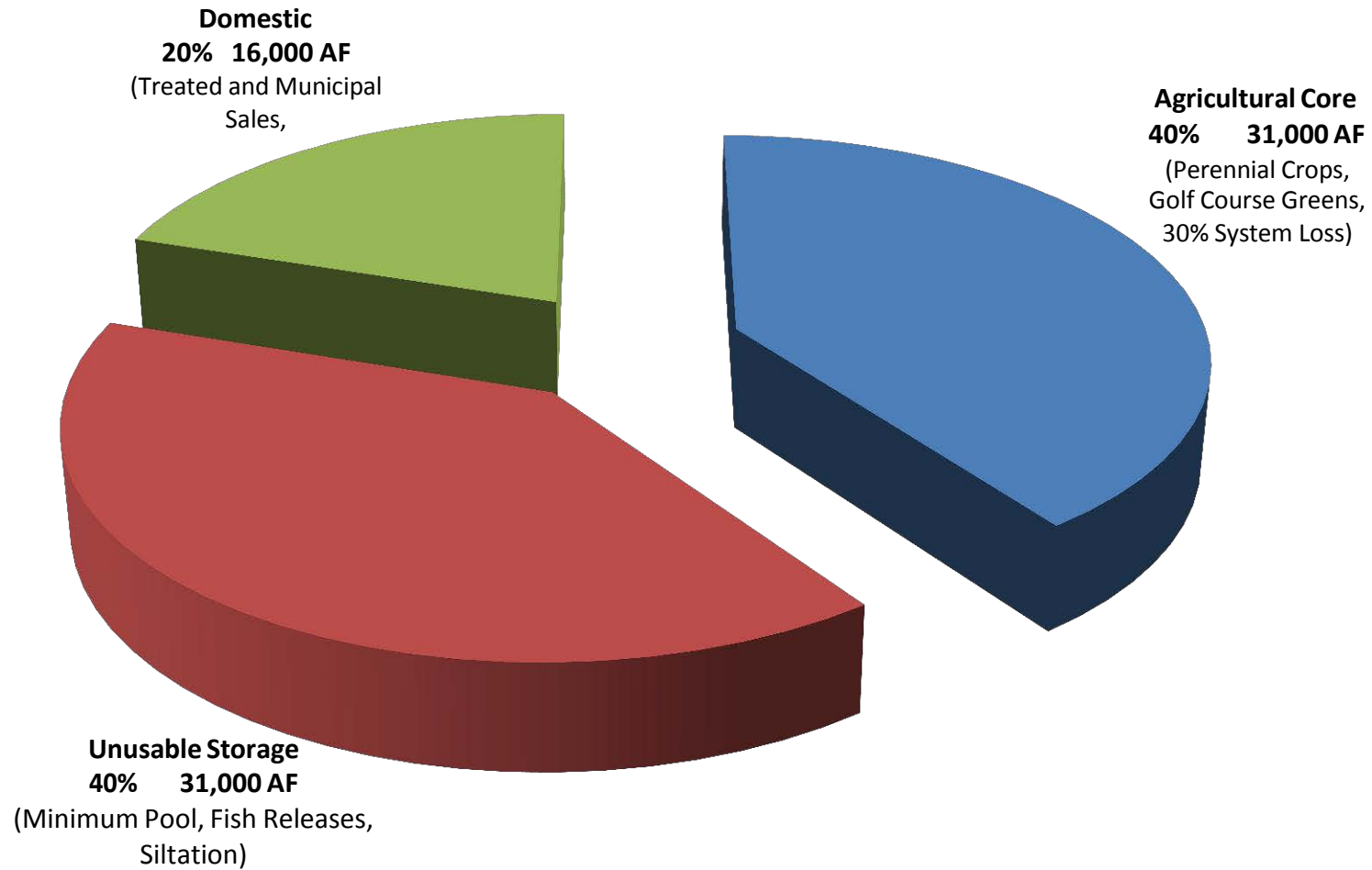
#### **Ag Water Reduction Actions**

- Impose Irrigation season delivery alternatives with a target reduction of >40%

#### **District Actions**

- Purchase available Contract water to achieve a minimum target a carryover storage of 78,000 acre feet for the end of October

## NID MINIMUM CARRY OVER STORAGE 78,000 ACRE FEET



## **DROUGHT HARDSHIP COMMITTEE AND VARIANCES**

During implementation of a mandatory reduction stage of the Drought Contingency Plan, the Board of Directors of the Nevada Irrigation District may appoint a Drought Hardship Committee. The Drought Hardship Committee is an advisory body and shall consist of one appointee from each director's division and the Water and Hydroelectric Operations (WHO) Board Committee. District Operation's staff will work closely with the committee.

The Drought Hardship Committee's purpose is to review the applications and determine whether additional water can be provided to the applicant. Before any appeal for a variance can be heard by the Drought Hardship Committee, the customer must submit a Drought Hardship Application and provide proof the water is being used for commercial agricultural purposes.

For the purposes of this Plan, the definition of commercial agriculture is an agricultural producer engaged in a for profit operation with a minimum gross annual sales of \$3,000 and a minimum capital investment of \$15,000. Commercial agricultural producers file a Schedule F with the Internal Revenue Service for their farming or ranching operation.

Preference will be given to applicants with an economic hardship and/ or those utilizing best management practices and with efficient irrigation practices in place. Variances may be approved for increases in water deliveries, seasonal variances or other protocols as determined by the Drought Hardship Committee. No such variance or appeal, however, shall be granted if the Board of Directors finds that the variance or appeal will adversely affect the public health or safety of others and is not in the public's best interest.

Under the California Water Code, in critical water supply situations, there is a priority that shall be allocated as follows:

1. Human Consumption
2. Livestock and Animals
3. Perennial Crops
4. Annual Crops

Upon granting a Drought Hardship Variance or appeal, the Board may impose any other conditions it deems to be just and proper.

## APPLICATION FOR DROUGHT HARDSHIP

<b>Name:</b>			<b>Canal:</b>		
Address					
Parcel No.:			Phone No.:		
Land Utilization:		Map Attached		Yes	No
<b>Livestock (number of)</b>			Stock water needs:      Yes   or   No		
Cattle		Horses			
Sheep		Other			
Hogs					
<b>Crop</b>	<b>Acres Planted</b>	<b>Amount Water Applied</b>	<b>Period of critical water need</b>	<b>Method of Irrigation</b>	
Pasture					
Orchard					
Rice					
Other					
Total acres of land irrigated at location:					
			<b>Year</b>	<b>Miners Inches</b>	
Water Purchase					
Allocated					
Is property within Nevada Irrigation District boundaries?			Yes	No	
Do you have proof the water is being used for commercial agricultural purposes			Yes	No	
Statement by landowner of hardship					
Intended use of additional water by landowner					
Describe efficient irrigation practices in use					
Do you file a Schedule F with the Internal Revenue Service?      Yes      or      No					

Please attach separate sheet for any additional information. Fraudulent statements will result in loss of water purchase.

I certify the above statements to be true and factual to the best of my knowledge.

Signed \_\_\_\_\_ Date \_\_\_\_\_



## **Appendix K: District Water Regulations**

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**NEVADA IRRIGATION DISTRICT  
WATER SERVICE REGULATIONS  
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## SCHEDULES

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## **SECTION 1**

### **INTRODUCTION**

#### **1.01 PURPOSE AND HISTORY OF DISTRICT**

The Nevada Irrigation District was formed August 15, 1921, by a vote of the people to collect, store and deliver irrigation water to farmers and ranchers. The District now encompasses approximately 287,000 acres and provides both agricultural and treated water to connections that will soon reach 25,000 due to projected growth increases.

eff. 6/11/03

#### **1.02 WATER SUPPLY AND FACILITIES**

The District's water supply originates in the upper reaches of the middle and south Yuba River as well as from the Bear River and Deer Creek waterflows. The District owns 10 storage reservoirs containing a capacity of 280,380 acre-feet. Treated water facilities include 8 treatment plants, 39 storage tanks and 325 miles of pipeline. The District also owns and operates five hydroelectric power plants. Power from the District Plants is sold to Pacific Gas and Electric Company. The plants provide on an average year about 350 million kilowatt hours of energy, an amount estimated to serve the equivalent of 85,000 homes. Two other plants, producing about 4 million kilowatts hours annually, are operated by the District under terms of private financing contracts, with the District sharing in revenue. Recreation facilities, operated by concessionaires and the United States Forest Service, are also provided at four of the District's reservoirs.

eff. 6/11/03

**1.03****ORGANIZATION OF THE DISTRICT**

Under the provisions of the Irrigation District Law, California Water Code Sections 20500 et seq, the affairs of the District are administered by a Board of Directors consisting of five members who are elected for a term of four years. Each Board member is elected by qualified voters within a certain division of the District. The District employs a General Manager, who reports directly to the Board, and a staff of about 170 employees to perform the daily operations of the District.

eff. 6/11/03

**1.04****MEETINGS OF BOARD**

The Board holds regular meetings on the second and fourth Wednesdays of each month, at the District's main office, located at 1036 W. Main St., Grass Valley, California. The public is welcome and encouraged to attend these meetings.

**1.05****PURPOSE OF REGULATIONS**

These Regulations are published pursuant to Section 22257 of the Irrigation District Law and provide for the equitable distribution and use of water within the District.

**1.06****MODIFICATIONS TO REGULATIONS**

These Regulations may be modified, amended or supplemented at any time by Board action.

eff. 6/11/03

## **SECTION 2**

### **DEFINITIONS**

#### **2.01                    ACRE FOOT (Ac Ft)**

Term used in water measurement. By California statute, one acre foot equals 43,560 cubic feet or 325,851 gallons.

eff. 6/11/03

#### **2.02                    AGENT**

Any person hired or under contract with or acting on behalf of the District.

eff. 6/11/03

#### **2.03                    APPLICANT**

Any person applying for District service.

eff. 6/11/03

#### **2.04                    AWWA**

American Water Works Association

eff. 6/11/03

**2.05                      BOARD**

The elected Board of Directors of Nevada Irrigation District.

eff. 6/11/03

**2.06                      CHARGES**

Includes tolls, rates, fees and any charges for service rendered by District.

eff. 6/11/03

**2.07                      CONDUIT**

Includes canals, laterals, ditches, flumes, pipes and appurtenances.

eff. 6/11/03

**2.08                      CUSTOMER**

Any person supplied or entitled to be supplied with water service by the District in accordance with established regulations, rates and charges.

eff. 6/11/03

**2.09                      DISTRICT**

Nevada Irrigation District, organized and operating under the State of California, Division 11 of the California Water Code.

eff. 6/11/03

**2.10                      DISTRICT APPROVAL**

Approved by the Board, or a delegated employee, such as the General Manager.

eff. 6/11/03

**2.11                      DISTRICT FACILITY**

Any facility which is owned by the District.

eff. 6/11/03

**2.12                      EMPLOYEE**

Employed by the District on a regular basis to conduct the day-to-day business of the District.

eff. 6/11/03

**2.13                      FACILITIES**

Any device or structure used for the storage, transmission, distribution, treatment, measurement of water, or for hydroelectric power production.

eff. 6/11/03

**2.14                                      GENERAL MANAGER**

Signifies the General Manager, as appointed by the Board, or the General Manager's authorized representative.

eff. 6/11/03

**2.15                                      GOVERNMENT CODE**

Refers to that portion of the California Codes governing generally the organization, powers, and responsibilities of governmental agencies and political subdivisions formed and existing within the State of California.

eff. 6/11/03

**2.16                                      LANDOWNER**

Holder of title of land located within the boundaries of the District.

eff. 6/11/03

**2.17                                      MINER'S INCH (M.I.)**

Term used in water measurement. By Northern California statute, one miner's inch equals 1.5 cubic feet per minute, or 11.22 gallons per minute.

eff. 6/11/03

**2.18                      OPERATE**

Includes operation, maintenance, repair and replacement activities.

eff. 6/11/03

**2.19                      OUTSIDE DISTRICT**

Property lying outside District boundaries, or excluded from District, and not subject to assessment.

eff. 6/11/03

**2.20                      PARCEL**

Shall mean each separate lot or unit of land denominated by the county assessor as possessing and holding a separate parcel number, under the mapping and numbering systems of such assessor.

eff. 6/11/03

**2.21                      PERSON**

Any person(s), firm, association, organization, partnership, business trust, corporation, company, or other entity.

eff. 6/11/03

**2.22 PREMISES**

Integrated land area including improvements operated under the same ownership and management.

eff. 6/11/03

**2.23 PRIVATE FACILITY**

Any facility not owned by the District.

eff. 6/11/03

**2.24 RAW WATER**

Water which has not been processed and is not safe for human consumption.

eff. 6/11/03

**2.25 REGULATIONS**

Refers to “Regulations Relating to Water Service” and includes all rules and regulations providing for the equitable distribution and use of water.

eff. 6/11/03

**2.26 BOARD SECRETARY**

Appointed by the Board to act as secretary to the Board.

eff. 6/11/03



**2.27                      TREATED WATER**

Water which has been processed to make it safe for human consumption.

eff. 6/11/03

**2.28                      WATER CODE**

Refers to that portion of the California Codes dealing with appropriation and control of water, and the formation and powers of an irrigation district.

eff. 6/11/03

**2.29                      WATER MAIN**

District treated water pipeline used for water distribution.

eff. 6/11/03

**2.30                      WATER SERVICE**

Includes the availability of water to a premises through District facilities and any water supplied through such facilities.

eff. 6/11/03

**2.31****WATER USER**

Any person actually supplied with water service by the District.

eff. 6/11/03

**2.32****WITHIN DISTRICT**

Property lying within the District boundaries.

eff. 6/11/03

## **SECTION 3**

### **GENERAL CONDITIONS OF WATER SERVICE**

#### **3.01 CUSTOMER COMPLIANCE**

Each customer, by applying for or receiving water service from the District, agrees to be bound by and to comply with all Regulations of the District, as adopted from time to time by the Board.

#### **3.02 CONTROL OF DISTRICT FACILITIES**

All District facilities are under the exclusive control of the Board and its designated employees; and no other person shall interfere with, regulate or control any such facilities, or the water flowing therein, without authorization of the Board.

#### **3.03 ALL WATER BELONGS TO DISTRICT**

The District expressly reserves the right to recapture, reuse and resell all waters within the boundaries of the District. No water user acquires a proprietary right by reason of use.

#### **3.04 PLACE AND USE OF WATER**

Except with the prior written authorization of the District, no customer shall use, or permit the use of any water furnished by the District on any premises, or for any purpose other than that specified in the application for service, nor shall any customer resell any water furnished by the District.

### 3.05

## WATER CONSERVATION

The District has a duty to protect and preserve its water resources for future generations. Water is a limited commodity and should be utilized in a responsible manner. In order to preserve water and protect District water rights, conservation and efficient water use must be practiced.

The following is a list of water usage that the District may consider a waste and therefore unreasonable use.

#### Treated Water:

Washing down paved surfaces unless for safety or sanitation, in which case a bucket, a hose with a shut-off nozzle, or a low-volume/high-pressure water broom must be used:

- Watering or irrigating landscapes or vegetation of any kind that creates excessive water flow or runoff onto pavement, gutters or ditches;
- Washing of vehicle with a hose unless equipped with a water shut-off nozzle (does not apply to commercial car washes);
- Cleaning of gutters by flooding with water;
- Landscape watering during the heat of the day (between 10am and 6pm);
- Use of fountains and water features that do not re-circulate water;
- Failure to repair leaks, breaks or malfunctions in a timely manner once found or after receiving a notice from the District;
- Outdoor watering during periods of rain;
- Any infraction of mandatory measures in place during implementation of District Drought Contingency Plan.

#### Irrigation Water:

- Failure to repair leaks, breaks or malfunctions in a timely manner once found, or after receiving notice from the District;
- Water not confined to the customer's property and being allowed to run off and cause damage to adjoining properties or to the roadside ditch or gutter;

- Any infraction of mandatory measures in place during implementation of Drought Contingency Plan.

Water users in violation of any of the practices, or one who willfully, carelessly, or due to defective or inadequate private facilities, may be subject to fines, reduction, or termination of service.

eff. 7/22/2015

### **3.06 TITLE TO WATER DELIVERED**

Title to water furnished by the District, the risk of loss thereof and full responsibility for the carriage, handling, storage, disposal and use thereof shall pass from the District to the water user at the service point from the District facility.

### **3.07 OUTSIDE DISTRICT WATER USE**

No use of District water will take place outside the District, except when it is deemed surplus to the needs of the District and the Board has declared the water surplus and approved an agreement for its sale. No outside District water user acquires a proprietary right by reason of past use. Applicants must reapply for service every three years on metered accounts and once a year for non-metered accounts. Outside District user(s) located within the interior boundaries of the District shall not be permitted to upsize their service without expressed approval by the Board.

eff. 6/22/88

### **3.08 NON-LIABILITY OF DISTRICT**

The District will exercise reasonable care and diligence to deliver a continuous supply of water to its customers. However, the District is not, and will not, be liable for any loss, damage, or inconvenience to any water user by reason of shortage, insufficiency, suspension, or

discontinuance of water service, or the increase or decrease of water pressure. Each water user agrees to hold the District and its employees and agents free and harmless from liability and damages caused by such loss, damage, or inconvenience.

### **3.09                               ENGINEERING SERVICES**

All water users and applicants requiring special engineering, inspection and administration, relating to providing water service, as well as for relocation or modifications to District facilities, will compensate the District for such special services.

eff. 1/1/94

### **3.10                               UPDATING SPECIFIC CHARGES**

All specific charges provided for in these Regulations will be reviewed and updated, if found necessary, on a periodic basis. All reviews will be conducted on an actual cost of service basis to provide for the most equitable charges possible.

### **3.11                               ADDITIONAL CONDITIONS CONTAINED IN APPLICATIONS**

Applications for water service may contain additional conditions and requirements relating to service. By signing the application, the customer acknowledges compliance with those additional conditions, as well as these Regulations.

### **3.12                               ENFORCEMENT OF REGULATIONS**

The General Manager shall enforce the provisions of the Regulations and will provide explanations and information as may be necessary and proper in connection with the Regulations. The General Manager may also make minor modifications to all forms contained in Appendix B of these Regulations.

eff. 6/11/03

## **SECTION 4**

### **TREATED WATER SERVICE**

#### **4.01 SUPPLEMENTAL DEFINITIONS**

##### **4.01.01 Fully Treated Water**

Water receiving treatment that will meet all applicable state health standards for a treated water system.

eff. 6/11/03

##### **4.01.02 Tank or Temporary Construction Water**

Water utilized from a non-permanent service point normally drafted from a fire hydrant, for temporary purposes, such as for construction activities. Water may also be provided from the District's raw water system. This class of water is not to be used for domestic purposes, except in an emergency situation as determined by the District.

eff. 8/12/87; rev. 6/11/03

##### **4.01.03 Commercial Use**

All uses of water except those categories included as non-commercial use.

eff. 6/11/03

##### **4.01.04 Non-commercial Use**

All uses of water by individual residences, as well as by public agencies, schools, churches, and documented non-profit entities.

eff. 6/11/03

**4.01.05           Conveyance Agreement**

An agreement entered into by the District and a developer, as discussed further in Section 10.03.03, which provides for the installation and conveyance of certain facilities to be owned and operated by the District related to the treatment, transportation, distribution and/or storage of water and further specifies the capacity charge payable upon connection to such facilities.

eff. 6/11/03

**4.01.06           Water Development Agreement**

A written agreement between the District and developer relating to the installation of certain treated water system improvements or to special capacity charges. This term was utilized in referring to Board Resolution 74-55.

eff. 6/11/03

**4.01.07           Standby Charge**

A charge levied against a parcel which is not receiving treated water service from the District to compensate for the costs of maintaining and operating existing District facilities capable of serving the parcel.

eff. 6/11/03

**4.01.08           Standby Factor**

A retroactive standby charge from the date the pipeline was installed, or accepted by the District, to the date the parcel was divided.

eff. 6/11/03

**4.01.09           Minimum Size Water Service**

Considered to be a 5/8-inch metered treated water service.

eff. 6/11/03



## **4.02**

## **STANDBY CHARGES**

### **4.02.01 General**

There shall be a charge, as shown in Schedule 4-A, to each parcel located in the District, which parcel is adjacent to, and has direct access to, a District treated water main which can provide a minimum size service. A parcel which is located so that a connection may be made to a District water main without necessity of obtaining any additional “non-District” easements or rights of access from any party will be considered as having direct access. The necessity of obtaining an encroachment permit or equivalent permission from the state or county division of government designated as controlling a roadway or easement, shall not prevent the levy of a standby charge. A parcel will be considered adjacent to a District water main when a principal part of the parcel’s frontage has access to the water main as further discussed in Section 10.01.01(c) of these Regulations.

A court decree or proscription of the Department of Real Estate, Corporation Commission or other state or county body or official against using land for residential or commercial purposes shall not excuse such land from being subject to a standby charge as a parcel.

### **4.02.02 Uncollected Standby**

Prior to acceptance of an application for water service, any uncollected standby, whether or not billed, shall be collected. Standby charges are collectable from the date the parcel became adjacent to, and had direct access to, a District water main and as determined by past agreements and inception dates of the standby charge.

The standby charges paid by the owners of a parcel shall remain with and run with the parcel and may not be transferred or assigned except that the successor owner of the same parcel shall receive credit for all standby charges paid by predecessor of the same parcel.

#### **4.02.03 Parcel Divisions**

If a parcel shall be divided into two or more parcels adequately fronting a District water main, for the purpose of this provision, each division of the larger parcel shall be entitled to credit for its ratio of the total standby charges previously paid by the larger parcel. The ratio shall be the number one over the number representing the total number of parcels existing after the division. The standby charge shall be calculated as if the parcels formed by the division shall have existed on the date the pipeline was installed or accepted by the District.

If there is an existing metered service prior to the division of a parcel, there is no credit given to the new parcels created that have no water service.

The standby factor may be deferred until the water service is requested.

#### **4.02.04 Properties Having Another Source of Water**

A parcel which is subject to a standby charge, but which has a well or raw water service prior to installation of the District water main, may not be subject to the standby charge upon District approval. Should water service be requested at a later date, back standby charges and late charges will be collected from the date the parcel became subject to a standby charge.

eff. 9/15/95

#### **4.02.05 Variances Granted by the Board**

When a system extension variance is granted by the Board, as discussed in Section 10.08, a standby charge from the date the District main was installed or accepted by the District shall be paid prior the District's acceptance of the application for water service for that parcel.

## **4.03**

## **WATER SERVICE REQUEST**

### **4.03.01      Route Slip**

As a first step in receiving water service, an applicant must fill out Form 4-A, Request for New Treated Water Service, Information Route Sheet, or Form 4-B, Request for Transfer of Treated Water Service, Information Route Sheet.

### **4.03.02      Application**

If water service is available to the parcel, as determined by the District, the owner will be required to sign a formal application Form 4-C, except as noted in Section 4.03.03, and pay the appropriate connection fee and any other fees and/or deposits that are payable under these Regulations. Applicants for tank or temporary construction water need to fill out Form 4-D and do not go through the route sheet procedures.

### **4.03.03      Exception to Signed Application**

In order to continue water service to properties that are owned by Federal National Mortgage Association (FNMA), an authorized representative may sign the application for water service in lieu of FNMA. \$150.00 must be paid on the account to be applied against the water service charges and the account must be kept current.

eff. 2/22/95; rev. 6/11/03

## **4.04      CONNECTION FEES**

### **4.04.01      General**

The connection fee is made up of two components; the meter installation charge and the capacity charge. As discussed further in Section 4.04.03, the actual capacity charge for a particular water service may vary based on prior agreements covering the service.

#### **4.04.02          Meter Installation Charge**

This charge is shown in Schedule 4-A and compensates the District for the cost of installing a meter and related piping and appurtenances at a District specified location. Customers requesting an alternate location of a meter assembly other than that specified, if approved, may be charged additional costs as provided in Section 4.06.02.

rev. 01/26/05

#### **4.04.03          Capacity Charge**

The capacity charge represents the customer's share of capital costs associated with the District's treated water system. Cost components are included for the treatment plant, storage tank and transmission pipelines and are based on the anticipated capacity requirements of a water service. These charges are non-refundable if service is terminated at a later date.

Capacity charges are shown in Schedule 4-A; however, in the case of water services covered by conveyance agreements or water development agreements, special capacity charges may be indicated. All water development agreements based on Board Resolution 74-55 provide for no capacity charge for a minimum size water service since the original developer had paid these charges, or installed the necessary water system improvements as part of the development. (The term "water development agreement" is no longer utilized in writing agreements.)

### **4.05                  WATER PRESSURE**

#### **4.05.01          Variations of Water Pressure**

Due to the foothill terrain predominating District treated water service areas, large variations of pressure can occur along a short stretch of any water main. Under normal conditions, the District attempts to maintain a minimum pressure of 20 pounds per square inch (psi) at its water main. It is the customer's responsibility to provide adequate size service lines on the customer side of the meter assembly, as well as any pumping facilities needed to compensate for water pressure losses between the meter assembly to the point of water use.

#### **4.05.02 Low Pressure**

If the District determines that a new service point would provide a normal pressure of less than 20 psi at the District's water main, the customer will be informed of the low pressure situation at the time of application. The customer will be required to acknowledge in writing that a notification was received prior to District approval of the application.

#### **4.05.03 High Pressure**

If the District determines that a new service point may provide pressure in excess of 80 psi at the District's water main, the customer will be notified of the high pressure at the time of application and that the installation of a pressure-reducing valve, along with a pressure relief valve, may be advisable. The customer will be responsible for installation and maintenance of the valves.

The District will provide the installation of a pressure-reducing valve at no cost to the existing customer where actions by the District cause an increase in the normal sustained operating pressure in the water main to exceed 80 psi. Upon installation, the pressure-reducing valve becomes the property and responsibility of the customer.

#### **4.05.04 Excessive Pressure Variations Caused by Customer's Equipment**

A customer shall not install any pump, quick closing valve, or other equipment or devices which cause excessive pressure drops or surges in the District's water system. Violation of this regulation will be cause for immediate termination of service. The customer will be liable for all damages to District facilities resulting from the installation of any such equipment.

#### **4.05.05 Water Heaters**

Water heater installations should be made in conformity with the applicable plumbing code. In addition, customers with back flow protection devices or pressure reducing valves installed as part of their water service should consult with a professional plumber for advice on thermal expansion safeguards.

The District will not be responsible for the safety of domestic or commercial water heaters, boilers or tanks on the premises of any customer.

eff. 6/11/03

## **4.06**

## **METER INSTALLATIONS**

### **4.06.01 General**

In order to equitably distribute, conserve and limit capacity in the District's water system, all treated water services will be metered in a manner meeting District approval. The District will own and maintain the meter assembly to and including the customer's service valve located on the customer's side of the meter.

### **4.06.02 Location**

The District reserves all rights in determining the location of metered services. The location of the water meter shall be determined by the District prior to accepting application for service. The location will be based on the most economical installation and providing proper access for meter reading and maintenance. Customers requesting an alternate location, if approved, shall pay all costs associated with installing the meter assembly and related piping and appurtenances based on the District's cost estimate, but not less than the charge shown in Schedule 4-A.

Rev. 01/26/05

### **4.06.03 Parcel Requirements**

Each parcel of land being served treated water must have at least one meter connection. A meter connection may not be used to serve two or more parcels. An exception to the above is the use of one meter connection to serve a green belt area common to several parcels which contain commercial type development. In this case, the owners of the parcels being served must either form an association or assign a trustee who is responsible for the upkeep of the common area and responsible for paying water use charges. Each of the parcels involved in the green belt area must have its own meter connection for water uses other than service to the green belt area.

In certain instances the District, at its sole discretion, may permit a single parcel to have more than one meter connection. Examples include a shopping center with varied tenant water requirements or two residences located on one parcel. The District may require parallel meter

assemblies with downstream valved interties for certain customers who are sensitive to water outages caused by periodic maintenance or testing of the meter assembly.

#### **4.06.04            Extent of Service Through Meter**

The District provides metered service by using two different concepts, individual meters and master meters.

Individual meters are used for residential, commercial and industrial parcels and lots as well as townhomes, residential condominiums and mobile home subdivision lots. In general, individual meters are placed along the street frontage of each parcel at lot corners. In the case of individually metered condominiums and townhomes, the meters are placed in the general vicinity of each cluster of units in a manner acceptable to the District and the onsite waterlines leading to the meter complexes are conveyed to the District for ownership. Separate meters are required for green belt and common use areas in these types of developments.

Master meters are used for apartment buildings, mobile home parks, motels, hotels, campgrounds, hospitals, skilled nursing facilities and board and care facilities. Master meters are generally placed along the project's frontage near the District's water main in a manner meeting District approval. In certain instances, the District may require conveyance and ownership of water mains located inside the project in order to properly serve areas lying beyond the project or to provide for future looping of the District's water distribution system. In these cases, master meters may be placed along the interior of the project in the general vicinity of the main building clusters in a manner meeting District approval.

Condominiums developed for office, professional, commercial, or industrial uses may be metered individually or by a master meter at the discretion of the owner. If a master meter is selected, an association or trustee must be assigned the responsibility for paying all water use charges.

The metering concepts discussed above shall also apply to the conversions of existing buildings. As an example, conversions of a building to residential condominiums will require a meter for each unit.

From time to time, new state and county statutes may be adopted allowing for new types of developments. The metering concept to be used, either master meter or individual meters, in cases of types of developments not specifically discussed in these Regulations, will be determined by the District on a case-by-case basis.

eff. 6/11/03

#### **4.06.05        Sizing**

The customer will make the basic determination as to the size of meter required; however, the District reserves the right to approve the size of service allowed.

Services to individual homes are normally limited to 5/8-inch or 3/4-inch size.

#### **4.06.06        Customer Responsibilities**

The customer is responsible for the acquisition and maintenance of any required easements or permits; the installation, maintenance and operation of the private service pipeline and appurtenances thereof located on the customer's side of the service valve. See additional responsibilities as outlined in Section 4.14 of these Regulations.

The customer must ensure that no landscaping, encroachments or any other form of property improvement shall be so placed as to cause a hindrance to the access between the road or street and the meter service box. Hindrance of District access to the meter may cause water service to be cut off. The customer's plumbing shall be connected to the meter box in a manner that will not hinder the maintenance or reading of the meter.



#### **4.06.07            Frequency of Meter Readings**

In general, meters shall be read on a bimonthly basis. As it is not always practical to read meters at equal intervals, the period between reading dates may vary and still be considered two months for billing purposes.

Special readings will be made on commencement and termination of service and as required by special circumstances.

rev. 04/25/06, 09/12/07

#### **4.06.08            Non-registering and Unreadable Meters**

If a meter fails to register or cannot be read due to circumstances beyond District's control, such as snow cover, consumption shall be estimated based on prior usage or in the event there is not sufficient prior history, from any water usage information available.

Where a meter cannot be read without undue difficulty because of an obstruction, the customer will be notified and requested to correct the condition. If the condition is not corrected by a given date, the District will remove the obstruction at the customer's expense.

#### **4.06.09            Testing Meters**

The District will test the accuracy of any of its meters upon the request of a customer, who will deposit the cost of such test as shown in Schedule 4-B.

The customer may, if he desires, witness the test. If a meter is found to be working improperly, it will be repaired or replaced by the District. If it is determined that the meter is registering more than five percent over the actual quantities passing through it, District will return the deposit for the test and adjust the billing. The period covered by the billing adjustment shall not exceed the preceding six months. If the meter registers within the limit of error specified above, the test deposit will be retained by the District.

## **4.07 CHANGE OF EXISTING SERVICE**

### **4.07.01 Upsizing**

When a customer requests an existing metered service to be upsized and no modification work will be required outside of the meter box, the customer cost for said service shall be the difference between the smaller and larger meter installation and capacity charges, as shown in Schedule 4-A, plus an additional charge to cover labor costs as shown in Schedule 4-B.

When work outside the meter box is required, such as a new service line or tap, the customer cost will be the full amount of the larger size meter installation charge and the difference between the meter size's capacity charges, as shown in Schedule 4-A.

eff. 6/11/03

### **4.07.02 Downsizing**

A charge, as shown in Schedule 4-B, will be made to cover labor cost. In these cases, no modifications would be made outside of the meter box. No refund of meter installation or capacity charges will be given.

### **4.07.03 Relocating**

Any relocation of District meters and/or service laterals will require approval by the District. Customers requesting the relocation of an existing meter shall pay all costs associated with the relocation based on the District's estimated cost, except that the customer shall not be charged less than the stated fee for the following standard relocations:

(a) Customer requested relocation of a meter assembly involving a meter size of 3/4-inch or less, a relocation distance of no more than 15 feet horizontally and/or 2 feet vertically, and not requiring a new tap to the water main nor other extra ordinary effort will be accomplished for the fee as shown in Schedule 4B (Relocating).

(b) Customer requested relocation of a meter assembly involving a meter size of 3/4-inch or less, requiring a new tap on the water main, the installation of no more than 15 feet of new

service lateral between the water main and the new location of the meter, and not requiring any other extra ordinary effort will be accomplished for the fee as indicated on Schedule 4A for installation charges, which pertains to the size of each meter involved in the relocation.

eff. 12/12/90; rev. 6/11/03; rev. 1/26/05

#### **4.08 WATER RATES**

All water rates are determined on a cost of service basis and are normally adjusted once a year. Water Rate Schedules 4-E through 4-L have been developed based on such factors as use of water, type of customer, treatment level and location of user.

eff. 7/11/90; rev. 3/26/04

#### **4.09 OFF RATE**

All customers who have their services shut off are subject to the off-rate charges shown in Schedule 4-I.

eff. 7/11/90; rev. 1/26/05

#### **4.10 ADJUSTMENT FOR LOST WATER**

An adjustment for treated water loss may be granted by the District per parcel, per owner, if the usage during the period is at least 2.5 times the usage for a comparable period of normal use. Not more than one adjustment, based on this section, shall be allowed to the same owner within a ten-year period. Request for adjustment must be made in writing by the property owner. Form 4-E is used to calculate the adjustment.

rev. 05/13/15; eff. 10/10/84

## **4.11**

## **WATER AVAILABILITY LETTERS**

### **4.11.01 General**

Upon receiving a written request, the District will issue a letter giving the current status of water availability to a project or parcel of land. This letter will state, in general terms and without making a commitment to serve the project, whether the project is within the District's boundaries, or within the various treated water system plan boundaries, and if capacity is currently available and under what conditions. The District will attempt to identify any potential problems that may be associated with making water available to the project (i.e. such as possible high or low pressure).

eff. 6/11/03

### **4.11.02 Administrative Processing Fee**

An administrative processing fee of \$50.00 shall be charged for water availability letters that require review by staff. This fee shall not apply for letters prepared for parcels with existing water or standby accounts. This fee may be waived if it is determined to be in the best interest of the District that the letter be issued.

eff. 12/12/90

## **4.12**

## **WILL SERVE LETTERS**

### **4.12.01 General**

A written request for a commitment of specific capacity to a project or parcel of land may be made to the District. A Will Serve Letter, however, will not be issued to any project requiring a county or city use permit, general plan or zoning change, or tentative map until the appropriate agency has conditionally approved the project. If issued, these letters may have specific time limits and will identify any conditions relating to providing water service as well as those items covered in a water availability letter as discussed in Section 4.11.

#### **4.12.02          Extension Not Required**

The owner of property not requiring an extension of the treated water system and otherwise qualifying for service by paying a standby charge may receive a Will Serve Letter covering a minimum size water service. No time limit will be stated in the letter unless a larger than minimum size service is requested. A commitment for an upsized service or additional services may be made by the District for a period of six months from the letter issuance date. This commitment terminates at the end of this period if the water service application process is not completed and all applicable fees and charges paid.

#### **4.12.03          Extension Required**

The owner of property requiring an extension of the treated water system and qualifying for water service pursuant to these Regulations, may receive a Will Serve Letter form the District. In order to maintain the capacity commitment, preliminary improvement plans meeting the requirements of the District and payment of the plan check and inspection fee deposit must be received by the District within six months of the date of issuance of the letter. Within one year of letter issuance, a conveyance agreement must be entered into.

### **4.13                      OUTSIDE DISTRICT TREATED WATER SERVICE**

The District shall provide treated water to existing outside District customers on a surplus basis only. This service will be for a maximum of three (3) years, at which time a renewal of the water application will be required. District will not accept new treated water service connections if the lands to be served lie outside the District Boundaries.

The District will not allow an off-rate charge as discussed in Section 4.09 of these Regulations. If service is requested to be turned off, the meter will be removed and the right for service terminated until such time as the lands are annexed into the District and the then current connection fees or other changes are paid.

eff. 7/9/86

## **4.14**

## **PRIVATE PIPELINES**

### **4.14.01 General**

In earlier years, prior to adoption of these Regulations, the District allowed treated water service through a private pipeline that served two or more customers. Meter assemblies were subsequently installed by the District on these private pipelines to provide accountability of water use to each individual customer. In these instances, the property owners receiving water service off the private pipeline are responsible for the acquisition and maintenance of any required easements or permits, as well as the maintenance and operation of the pipeline and appurtenances thereof. The meter assembly, as discussed in Section 4.06.01 of these Regulations, will remain the property of the District.

In certain instances, the District may participate in the replacement of private pipelines with District-owned water mains. See Section 10.09 of these Regulations.

### **4.14.02 Leakage**

If the District determines that a private pipeline has leakage, the property owners receiving water via the private facility will be notified that repairs must be made within a time period, as determined by the District, or water service will be discontinued. In addition to the above, District reserves the right to prorate and bill for the estimated leakage to each of the property owners served off the private pipeline. The District may also, at its option, install a master meter at the head of a private pipeline that serves two (2) or more properties and prorate the cost of the unaccounted lost water to each property owner.

## **SECTION 5**

### **RAW WATER SERVICE**

#### **5.01 SUPPLEMENTAL DEFINITIONS**

##### **5.01.01 Raw Water**

Untreated water to be utilized for purposes other than human consumption.

##### **5.01.02 Seasonal Irrigation Service**

Water delivered from approximately April 15 and ending approximately October 14, unless otherwise determined by the Board. Dates may vary to meet individual crop needs or maintenance of District facilities.

eff. 6/11/03

##### **5.01.03 Winter Water Service**

Water delivered approximately October 15 and ending approximately April 14, unless otherwise determined by the Board.

eff. 9/25/91

##### **5.01.04 Annual Raw Water Service**

Deliveries made year round at rates of flow that may differ between the irrigation and the winter seasons. No new accounts are accepted for this category of service.

eff. 5/24/89

**5.01.05 Intermittent Flow Service**

Water delivered which cannot be supplemented by an auxiliary supply from the District, and in District's opinion cannot be considered a firm supply.

**5.01.06 Fall/Stock Water**

A service available during the period from October 15 to December 1, both dates inclusive. This service will only be provided when and where District has available water and is secondary to seasonal or demand water.

eff. 12/12/90

**5.01.07 Demand Water Service**

Water requested for a predetermined period. This service will only be provided when and where District has available water in excess of requirements for seasonal water.

**5.01.08 Tank or Temporary Construction Water**

Water utilized from a non-permanent service point for temporary purposes such as for construction activities. This class of water is not to be used for domestic purposes.

eff. 8/12/87

**5.01.09 Miner's Inch (M.I.)**

Term used in water measurement. By California statute, one miner's inch equals 1.5 cubic feet per minute, or 11.22 gallons per minute.

**5.01.10 Rotation**

A method of delivering water where two or more customers of close proximity receive water on a predetermined schedule. The amount of the delivery must balance to the constant flow of the purchase.



**5.01.11 Surplus Water**

Water which is surplus to the needs of lands within the District boundaries.

**5.01.12 Closed Raw Water Integrated Conduit System**

Any District or privately owned closed conduit facility, i.e., pipeline, which is utilized to convey raw water and has more than one service connection being used for annual deliveries.

**5.01.13 Service Outlet**

A service connection intended to divert, deliver and measure water to a customer.

**5.01.14 Mutual Water Company, Special District, or Entity**

Any entity legally organized for the purposes of distribution and purchase of water to specifically identified parcels of land.

eff. 6/11/03

**5.01.15 Primary Account**

Account in authority for a service outlet, designated by the parcel owner that paid for the initial installation of the service outlet.

**5.01.16 Private Conduit Account**

Accounts that are served through a primary account service outlet when excess capacity is available and permission has been granted by the Primary Account Holder.

**5.01.17 Primary Account Holder**

The person that paid for the initial installation of the service outlet. The Primary Account is subject to transfer in accordance with Section 5.06.01

eff. 01/22/14

## **5.02**

## **WATER SERVICE REQUEST**

### **5.02.01      Route Slip**

As a first step in receiving a new water service, an applicant must fill out Form 5-A, Raw Water Service, Information Route Sheet. Applicants for an intermittent flow service do not need to fill out this form.

### **5.02.02      Application**

If a water service is available to the parcel, as determined by the District, the applicant will be required to sign a formal application as discussed hereafter and pay the appropriate installation charges, plus any other fees and/or deposits that are payable under these regulations.

- (a) Seasonal Irrigation Service. New Owner must sign Form 5-B and have it on file at the District's office on or before April 1 in order to ensure a supply of water for the current irrigation season. Applications for service are effective until there is a change in ownership.

eff. 03/11/98

- (b) Winter Water Service. Applicant must sign Form 5-B.

(c) Annual Raw Water Service. Transfer applications for existing annual raw water service will be made on Form 5-C. No new applications will be accepted. Annual accounts turned off at the customer's request, or for non-payment, will be transferred to a seasonal account.

eff. 5/24/89

(d) Intermittent Flow Service. Applicant must sign Form 5-D. Water sales will be established in acre-feet by District through pump ratings, sprinkler flow, actual diversions, acreage irrigated or any combination of these methods as may be deemed appropriate to determine the amount of water to be used.

(e) Fall Water Service. Application shall be made on Form 5-B, available at District office.

eff. 12/12/90

(f) Demand Water Service. Application for service shall be made on Form 5-B and should be made at least five days before service is required.

(g) Tank or Temporary Construction Water. Application shall be made on Form 4-D.

(h) Surplus Water. Application for use of water outside the District boundaries shall be by agreement on Form 5-E and must be on file at the District's office on or before April 1 of each year in order to be considered for a supply of water for the current irrigation season. All applications for surplus water are subject to Board approval.

(i) Rotation. Applications must be received by April 1, in order that schedules for rotation delivery can be developed prior to commencement of irrigation season. If an equitable rotation schedule cannot be reasonably developed due to changes in water purchases, or property owners not returning applications on a timely basis as indicated above, District, at its discretion, may order that the water be delivered on a continuous flow basis. Applications for rotation delivery received after April 1 will be delivered water on a continuous basis for the season.

### **5.02.03 Cancellation**

Upon request of the customer, cancellation of the current seasonal irrigation service may be made during any time of the season, either in whole or in part. The quantity of such seasonal

irrigation water delivered shall be charged on a pro-rated basis up to the date of cancellation and a service call fee, as shown on Schedule 7-A, shall be charged.

eff. 7/12/89; rev. 6/11/03

#### **5.02.04 Early Application Discount**

Applications for seasonal irrigation service received on or before April 1, together with full payment, shall have a 5% discount on their charges. This discount shall not apply to those types of entities referred to in Section 5.08.

eff. 3/10/93

#### **5.02.05 Change in Seasonal Irrigation Service**

During the irrigation season, charges for requested increases or decreases may be prorated with the addition of a service call charge as shown on Schedule 7-A.

eff. 12/11/94

### **5.03 WATER USE EXCLUSIONS**

#### **5.03.01 Integrated Raw Water Conduit**

Applications for water service will not be accepted from a closed raw water integrated conduit system where said service is proposed to be used for annual deliveries.

#### **5.03.02 Fish Cultivation**

The District will not sell water to cultivate and/or sustain fish life.

#### **5.03.03 Water Use for Residential Purposes**

The Federal Safe Drinking Water Act definition of a Public Water System (PWS) includes the District's raw water delivery system. Guidelines implementing the definition of a PWS prohibit the District from providing raw water for human consumption. Therefore, use of raw water for

drinking and cooking is excluded for all customers, unless processed by an approved home treatment facility as provided in this section.

(a) Applications For New Water Service

The District will not accept new applications for raw water service where the proposed water use is for residential purposes, regardless of the applicant's intent to use bottled water, hauled treated water, or provide a home treatment facility. No applications will be accepted for annual raw water service.

(b) Water For Drinking or Cooking

Existing District raw water customers not using a well or spring for all drinking and cooking needs must be connected to a Public Water System, use bottled water or hauled treated water, or use water processed by an approved home treatment facility.

(1) Bottled or Hauled Treated Water

Bottled or hauled treated water used for drinking or cooking must be delivered to the parcel(s) by a commercial distributor who has agreed, in writing, to District conditions.

(2) Home Treatment Facility

A home treatment facility used to produce water for drinking or cooking must be approved by the Department of Health Services. The facility must be operated, maintained, and monitored by the District or its agent, under contract with the owner.

(c) Cost and Expense

All costs for providing water for drinking and cooking, including District costs, will be at the owner's expense.

eff. 03/22/00

## **5.04**

## **SERVICE OUTLETS**

### **5.04.01 General**

The District owns and maintains the water service outlet assembly up to and including the service valve located on the discharge side of the service outlet. All facilities beyond this point are the responsibility of the customer. All service outlets will contain a means of measuring the amount and/or flow rate of water delivered to a customer(s). The means of measuring flow and amount of water, and the units of measurement for billing purposes, shall be subject to change by the Board of Directors based on the customs and practices of the industry.

Each service outlet will be assigned to a single Primary Account and to a parcel designated by the account holder that paid for the initial installation (the “Primary Account Holder”). Service outlets will not be assigned to more than one Primary Account, but may be used for a shared service to a Private Conduit in accordance with Section 5.06.05. In cases where the Primary Account Holder owns multiple parcels or subdivides a parcel, he/she must notify the District in writing as to which parcel the service outlet should be assigned.

In the event that the ownership and/or designated parcel of a Primary Account is not evident based on historical records of the District, the District will assign the Primary Account based on the natural progression of ownership and/or the seniority of the account. A service outlet’s Primary Account may be transferred upon the written request of the Primary Account Holder. The Primary Account Holder requesting transfer shall notify, in writing, the District and all Private Conduit Accounts served by the service outlet of the proposed transfer. Both the existing and the proposed Primary Account Holders shall sign a notarized transfer agreement to document said transfer.

rev. 01/22/14

#### **5.04.02        Location**

The District shall have the sole discretion and authority on the final selection of the location for raw water service outlets. This site selection prerogative shall pertain to services from raw water pipelines, open canal facilities and, where applicable, certain natural randoms or streams. The outlet location shall be determined prior to District accepting an application and collecting the installation fee. The following shall be used in location of service outlets:

(a) The District shall endeavor to accommodate the customer in selecting the location. However, the District must give consideration in the selection of the point of service to the integrity of the hydraulics in the conveyance system. Any location which will create undue expense for operation and maintenance of the system or will create unacceptable distortion to the hydraulics of the facility or stream will not be permitted by the District.

(b) Any service outlet location for a raw water service which will require additional appurtenances such as a special measuring structure, check structure or screening device in order to ensure water delivery for the service point, shall be constructed by the District at the sole cost of the applicant, in accordance with District standards.

(c) Where approved, the amount of the purchase from natural randoms or streams, supplied by the District, shall be sales of no less than one (1) miner's inch of water. The District, through pump ratings, sprinkler flows, actual diversions, or any combination of the above methods, will determine the amount of purchase.

Changes in purchase amount of irrigation water will be allowed only after field review by the District Staff, and a determination made that a change is in order. Inspections of the services from natural randoms or streams will be made by the District to insure that the amount of water purchased is in compliance with the seasonal application.

eff. 7/9/86

(d) There shall be no new services located on the following types of facilities since they shall be utilized for storage and transmission purposes only: inverted or standard siphons, except where approved centralized service manifolds have been established, drop pipes or chute flumes, elevated flumes or pipes, penstocks, or reservoirs.

eff. 6/22/88

(e) In some instances, due to the canal size and the irrigation water demands, the service box outlet will only be installed during the non-irrigation season.

#### **5.04.03          Installation Charges**

These charges for a standard installation are shown in Schedule 5-B and are due at the time formal application is made. The cost of additional appurtenances, if required, will be added to the standard installation charges.

#### **5.04.04          Multiple Service Outlets**

More than one point of service may be permitted by the District for delivery of the customer's entitled water, provided the customer will take the water in a manner acceptable to the District. An additional outlet, or outlets, will be installed by the District at customer's expense, including installation as shown in Schedule 5-B and annual charges as shown in Schedule 5-C. If the customer fails to comply with conditions prescribed by the District, the use of an additional box, or boxes and/or water service may be discontinued.

#### **5.04.05          Removal**

A service outlet will be removed at the expense of the District after notification by the property owner on Form 5-F, provided by the District. Once an outlet(s) has been removed, re-establishing water service shall be in accordance with these Regulations, including the appropriate installation charges.



On outside District accounts, the service outlet will be removed if water is not purchased every other year. If an application for service is not received by April 1 of the second year, the property owner shall be notified in writing that, if water is not purchased within 30 days of the date of notification, the outlet shall be removed and the account deleted.

eff. 1/1/89

#### **5.04.06 Account Charges**

Until such time as an outlet is removed, an annual charge as shown in Schedule 5-C will be collected with or without the purchase of water. This charge does not guarantee or imply that raw water will be available at a future date for an inactive account.

eff. 1/1/89

#### **5.04.07 Relocation**

Relocation of an existing raw water service outlet will be accomplished as outlined under Sections 5.04.01 and 5.04.02 and will be done for the new service outlet installation charge as shown in Schedule 5-B.

eff. 5/27/87

### **5.05 WATER RATES**

All water rates are determined on a cost of service basis and are normally adjusted once a year. Water Rate Schedules 5-C through 5-R have been developed based on such factors as location, billing period and reliability of water flow.

eff. 6/11/03

## **5.06**

## **PRIVATE FACILITIES**

### **5.06.01 Use Of**

Upon approval of the District, private facilities may be used to transport and distribute raw water provided that the facilities are in good repair, will not cause excessive water losses, and are adequate in capacity to serve additional water. The District will construct and maintain, at the head of private facilities, such controls as diversion structures, gates and/or measuring devices as necessary to control water flow, purchased by owners of the private facilities. The District will not provide service through a private facility without first receiving approval from the owners of the private facility on Form 5-G provided by the District.

See Section 2 of these Regulations for further clarification on the use of private facilities.

eff. 6/11/03

### **5.06.02 Operation and Maintenance**

District responsibilities for operation and maintenance ends at the beginning of the private facilities.

### **5.06.03 Excessive Leakage**

If the District determines that a private facility has excessive leakage, the facility owner(s) will be notified that repairs must be made within a time period, as determined by District, or water service will be discontinued.

### **5.06.04 Non-payment of Accounts**

Customers receiving raw water from a private facility serving two or more customers, shall have the amount of water reduced at the head of the private facility for non-payment of their accounts.

The District will not in any way be responsible for insuring that water is received by the paying customers on the private facility.

eff. 10/11/89; rev. 6/11/03

#### **5.06.05 Private Conduits**

Shared service to a private conduit through a Primary Account service outlet is available with the approval of the Primary Account Holder and provided excess capacity is available at the service outlet. The Primary Account holder must provide written permission through the use of form 5-G. Utilization of the service outlet to serve a private conduit account is subject to discontinuance at any time by direction of the Primary Account Holder, provided a minimum of 30 days notification prior to the start of irrigation season. Private Conduits Accounts may not be discontinued during the irrigation season.

eff. 01/22/14

### **5.07 HYDROELECTRIC DEVELOPMENT**

#### **5.07.01 Natural Streams**

Pursuant to Water Code Section 22280, the District will collect from a hydroelectric power producer with a rated plant capacity of 100 kilowatts or more, desiring to utilize District water flowing in a natural stream or waterway, a charge for the use of said water. The charge will be determined by multiplying ten percent of the standard weighted average price, as published by Pacific Gas and Electric Company pursuant to California Public Utilities Commission Decision Number 91109, by the energy produced by District water. If the charge, as determined above on an annual basis, is less than the standard weighted average price multiplied by 5,000 kwhs, the latter will be collected as a minimum charge for that particular twelve-month period.

Each water sale for power generation purposes will be covered by an agreement, signed by the power producer and approved by the Board. Articles of the agreement will cover insurance requirements, method of measuring District water and power produced, payments to District, hold harmless considerations, agreement termination, protection of District water, continued water use qualifications and other items deemed necessary by the District.

eff. 6/11/03

**5.08****MUTUAL WATER COMPANIES AND SPECIAL DISTRICTS**

The District will sell agricultural water to mutual water companies, special districts, or other entities at its service point in accordance with these Regulations and providing the following conditions are met:

(a) Prior to approval by the Board, the developer must first meet the requirement of Section 11.01.03 of these regulations which provide for the orderly development and extension of the District's raw water system.

(b) The following documents have been filed with the District: The Articles of Incorporation for a mutual water company, or rules and regulations, or bylaws of the mutual water company, special district, or other entity. The current list of property owners with map showing boundaries and water system and the name and telephone number of a contact person who is to be responsible for the distribution of water within these boundaries.

(c) Board approval of the entity, mutual water company or special district prior to the sale of water.

(d) Prior to March 15 of each year, submission of a written request for water containing the following information: Amount of water desired, county parcel numbers of the land on which crops are to be raised, type of crop, and acres irrigated.

Water sold under this policy is to be used only for agricultural use. It shall be the responsibility of the mutual water company, special district, or other entity to obtain any necessary licenses or permits from the County, State, or other such agencies as may be required to place the water to any other use.

If the primary use of district water sold under this policy is for any purpose other than the irrigation of crops, this policy will not prevail.

(e) A 15% administrative fee will be charged to mutual water companies, special districts, or other entities.

This fee will cover the cost of special handling of these accounts by the District to ensure that the mutual water company, special district, or other entity is in compliance with these Regulations. If a mutual water company, special district, or other entity elects to continue its registration with the State of California, then this administrative fee will not apply.

(f) All mutual water companies, special districts, or other entities who purchase water from the District for agricultural purposes only will be required to pay for their water in full prior to April 1 each year.

eff. 12/12/90

## **5.09 PRORATION OF CAPACITY**

When deemed necessary, due to lack of available capacity in District facilities, the Board may order that the available capacity be prorated. Proration shall be on an acreage basis, with the water sale rounded to the closest sale increment as shown in Schedule 5-G.

Due to the lead time required to prepare the tabulation for proration, and unless otherwise provided, a minimum of 90 days lead time shall be allowed prior to instigating a proration schedule. Any proration schedule that is adopted shall remain in effect for a minimum of 180 days, unless ordered otherwise by the Board. Any property owners choosing not to purchase and use any or all of their prorated share shall advise District. The unused shares shall be prorated and distributed among those property owners requesting additional water.

When ordering proration, the Board may take into consideration water usage based on the following priorities: (1) Residential and stock water, (2) Orchards and perennial crops, (3) Pasture and annual crops, (4) Garden and row crops, and (5) other.

## **5.10 WATER AVAILABILITY LETTERS**

### **5.10.01 General**

Upon receiving a written request, the District will issue a letter giving the current status of water availability to a project or parcel of land. This letter will state whether the project is within the District's boundaries, the project's entitlement to a prorated share of water, nearest raw water conduit, and will attempt to identify any potential problems that may be associated with making water available to the project. These letters will generally be effective for a one-year period from the date of issuance.

### **5.10.02 Administrative Processing Fee**

An administrative processing fee of \$50.00 shall be charged for water availability letters that require review by staff. This fee shall not apply for letters prepared for parcels with existing water or standby accounts. This fee may be waived if it is determined to be in the best interest of the District that the letter be issued.

eff. 12/12/90

## **5.11 RAW WATER OUTAGE ADJUSTMENT**

When major rehabilitation or emergency work is required on a District raw water facility and a customer is affected by a continuous water outage for more than two (2) consecutive weeks, excluding weekends, that customer may request and receive an account adjustment.

The adjustment will be calculated by multiplying the number of outage days beyond the initial two (2) week period by the average daily water charge for the customer's size of service.

eff. 3/26/86

## **5.12**

### **DROUGHT CONTINGENCY PLAN**

Under drought conditions, the District adopted a Drought Contingency Plan on December 9, 1992. In order to provide for demand reduction goals for water supplies, deliveries will be based upon a schedule from April 1<sup>st</sup> Forecast in acre feet.

The Drought Contingency Plan will be followed according to its plan for maintaining a goal of 70,000 acre feet of water from water season to water season for carry over storage and for the health and safety of the District's domestic and agricultural water users.

The plan is described in the District Board and Management Policy Manual.

eff. 6/11/03

6SECTION 6

SECTION 6

RENDERING AND PAYMENT OF BILLS

6.01 TERMS OF PAYMENT

6.01.01 Treated Water and Annual Raw Water

All water charges are due and payable on issuance of the statement.

If not paid:

4 weeks from issuance – a notice of termination of service will be included with the bimonthly billing.

6 weeks from issuance – a turn-off notice shall be issued and a charge as shown in Schedule 6-A, shall be made for serving such order.

7 weeks from issuance – service may be turned off.

A charge, as shown in Schedule 7-A, shall be made for turn on.

8 weeks from issuance – a late payment penalty at the rate of 1 ½% per month, shall be added hereto.

eff. 6/93; rev. 6/11/03, rev. 8/10/05, rev. 09/12/07

6.01.02 Seasonal Irrigation Service

(a) Inside District Applicants. One-third of the total charges are due by April 1 or prior to receiving water. If there is a new owner, payment is due with the application.

eff. 03/11/98



One-third of the total charges due June 15, and if not paid by July 15, a notice of termination of service shall be mailed and a ten percent late payment penalty shall be added. If payment is not received by July 22, service may be turned off.

One-third of the total charges due August 15, and if not paid by September 15, a notice of termination of service shall be mailed and a ten percent late payment penalty shall be added. If payment is not received by September 22, service may be turned off.

A charge, as shown on Schedule 7-A, shall be made for turn-on.

(b) Outside District Applicants. One-third of the total charges to be paid with application.

One-third of the total charges due June 15, and if not paid by July 15, a notice of termination of service shall be mailed and a ten percent late payment penalty shall be added. If payment is not received by July 22, service may be turned off.

One-third of the total charges due August 15, and if not paid by September 15, a notice of termination of service shall be mailed and a ten percent late payment penalty shall be added. If payment is not received by September 22, service may be turned off.

A charge, as shown on Schedule 7-A, shall be made for turn-on

(c) Delinquencies. Applicants who are delinquent in the payment of water charges shall pay charges prior to District's acceptance of application for subsequent seasonal irrigation service or make satisfactory agreement with District for payment of same. An additional ten percent late payment penalty shall be added to all seasonal irrigation water accounts remaining unpaid on February 15.

eff. 6/11/03

### **6.01.03                      STANDBY**

All standby charges are due and payable on issuance of the statement. Standby charges are delinquent four months after issuance and may be transferred to the County Tax Rolls for collection.

eff. 6/11/03

### **6.02                              MULTIPLE ACCOUNTS**

Combining of two or more seasonal irrigation services for reduced rate purposes will be permitted when any of the following conditions are met:

(a) Applicant owns a single parcel of property and requires more than one seasonal irrigation service from different District facilities in order to serve this one parcel.

(b) Applicant owns more than one parcel or property which is served from the same canal system and operated as a single farming unit; and seasonal irrigation service is purchased for each parcel under separate applications. Property must be owned and listed on the county assessor's roll under the applicant's name.

eff. 5/27/87

### **6.03                              BILLING TO THE AGENT/RENTER**

Direct billing to the agent/renter can be made upon receipt of a written authorization from the property owner that the agent/renter has been designated as the agent of the property owner. If the owner desires a duplicate of the water statement which is sent to the agent/renter, a handling charge as shown in Schedule 6-A, will be applied.

**6.04****NON-PAYMENT OF ACCOUNTS**

Charges for water and other services, including penalties and supplemental charges, which are delinquent at the time specified for the delivery of outstanding charges to the county tax collector, may be added to and become a part of the annual assessment levied to the land upon which the service was rendered.

The District may refuse service to any land if outstanding charges for services already rendered such land are delinquent. (Section 22282.1 of the California Water Code)

The District may, under the provisions of Section 25806 of the California Water Code, record a lien on any or all lands owned or subsequently acquired by the person liable for such charges.

**6.05****SECURITY DEPOSITS**

The District may charge a security deposit, as shown in Schedule 6-A, for all outside District customers and for all inside District commercial accounts.

A simple interest of 5 ½% per annum shall be accrued on all security deposits effective January 1, 1981.

Deposits from commercial accounts shall be held for a period of one year. At the end of that period, the deposit plus interest may be applied to the account or refunded provided the account has been paid on a timely basis. Should a turn-off order be issued due to non-payment, a deposit equal to twice the highest bimonthly bill shall be required before the service can be turned on.

Deposits from outside District customers, providing the account has been paid on a timely basis, are held for a period of one year. At the end of that period, the deposit plus interest may be applied to the water account and the balance, if any, shall be refunded.

eff. 8/12/87; rev. 6/11/03, rev. 09/12/07

## **6.06                      RETURNED CHECKS**

Checks returned by the bank unpaid shall be returned to the account. A return check fee, as shown in Schedule 6-A, shall be added to the water account and any other bank charges that may be assessed due to the returned item.

eff. 2/13/85

## **6.07                      DISCONTINUANCE OF SERVICE**

### **6.07.01              Non-payment of Bills**

Water service may be discontinued if a bill for services rendered has not been paid within the time prescribed by the District.

### **6.07.02              Noncompliance with the District's Regulations**

If a customer fails to comply with any of these Regulations, the District will notify the customer of such failure. If the customer fails to comply within a reasonable time, the District may discontinue service.

### **6.07.03              Customer Service Discontinuance Request**

If the customer gives the District a written request to disconnect the service, the District will notify the customer of the legal and financial impact of such request.

**6.08****OUTSIDE DISTRICT CUSTOMER CHARGES**

Any installation charges, or bimonthly charges listed as schedules in these Regulations, will be increased by twenty-five percent for outside District customers.

rev. 04/25/06, rev. 09/12/07

**6.09****DISPUTED OR ERRONEOUS BILLS**

Any request for review of a disputed or erroneous bill must be made in writing to the District office. Dispute of a bill shall not justify nonpayment thereof and the bill shall be paid in full when due pending the settlement of the dispute.

**6.10****TIME AND MATERIAL CHARGES**

The term time and material charges, as used in these Regulations, shall indicate a determination of costs based on the actual amount of labor, equipment and materials utilized, including applicable overhead factors. A deposit will be required based on the estimated costs and a final billing will be provided to the applicant or customer after completion. If final costs are in excess of the deposit, additional payment will be due within 30 days of receipt of final billing. If final costs are less than the deposit, the difference will be refunded.

**6.11****UNSPECIFIED CHARGES**

When these Regulations require that improvements or modifications be made by District at customer's sole cost and expense, the District may estimate these costs and make final charges based on the estimate, or it may utilize an actual time and material basis, as provided in Section 6.09, at the sole discretion of the District.

## **6.12**

### **TERM PAYMENTS**

The General Manager and the Finance Manager, together, are authorized to sign term payment agreements with individual property owners under the following guidelines:

(a) Up to a 60-month period and a maximum amount of \$7,000.00 can be authorized for District fees and charges related to a new treated water service including but not limited to, capacity charges, meter and backflow prevention device installation charges, culvert replacements and buy-in fees to improvement districts. The interest rate to be charged on all term payment agreements will be four (4) percent and such rate may be changed from time to time by the Board of Directors as economic conditions warrant. Late term payments will pay charges equal to the rate shown for the late payment penalty in Section 6.01.01 of these Regulations.

(b) Up to a 12-month repayment period can be authorized for customers to pay delinquent water account charges. A late payment penalty shall be charged at the rate shown in Section 6.01.01.

(c) The Treasurer, or the Deputy Treasurer, shall conduct a credit check on applicants.

(d) The District has the right to remove the water meter upon failure to pay.

eff. 7/13/94; rev. 6/11/03; rev. 4/14/04; 3/25/2009

## **SECTION 7**

### **CUSTOMER SERVICES**

#### **7.01 ROUTINE TURN ON AND TURN OFF**

All customer requests for turn on and turn off shall be made in writing, or on Form 7-A available at the District office, signed by the property owner. Prior notice of 72 hours may be required in making routine turn on and turn off. A special service call fee, as shown in Schedule 7-A, is charged for making the turn on.

eff. 6/11/03

#### **7.02 TURN ON FOR NONPAYMENT**

Turn on of water service after being shut off for nonpayment may be made provided the account is paid in full, or if a satisfactory arrangement has been made prior to the turn on. The service may be turned on the same day if it can be done during District's normal operating hours; otherwise, the service will be turned on the following business day. A special service call fee, as shown in Schedule 7-A, shall be charged to the customer.

eff. 6/11/03

#### **7.03 EMERGENCY TURN ON**

If water service is required in advance of the timing outlined for routine or nonpayment turn ons, a turn on may be arranged if the customer pays a special service call fee in advance. This fee shall be charged to the customer, as shown in Schedule 7-A.

eff. 6/11/03

**7.04****SPECIAL METER READINGS**

A customer requesting a special meter reading shall be charged the fee shown in Schedule 7-A.

**7.05****SERVICE CALL**

During normal operating hours, a customer requesting a service call concerning the pressure or quantity of water being received may be charged the fee shown in Schedule 7-A, if it is determined that District facilities are operating satisfactorily and the problem lies within the customer's facilities.

After normal operating hours, the fee, as shown in Schedule 7-A, shall be charged to the customer.

eff. 03/11/98



## **SECTION 8**

### **FIRE SERVICES**

#### **8.01 GENERAL**

Three types of fire services are available; public fire hydrants and private fire services served by treated water systems and public fire services served by raw water systems. These fire services shall be used only for the purpose of extinguishing fires and for testing fire suppression systems.

#### **8.02 DISTRICT LIABILITY**

The District does not guarantee or represent that a specific or certain minimum water pressure or volume of water will be available through a fire service. Fire services will be subject to the variations of water pressure and flow and to the temporary shutdowns required in the operation and maintenance of the system or any interruptions of operations in the system. The District shall be held in no way responsible for and the applicant and/or local fire fighting entity must agree to hold the District free and harmless from injury or damage caused by the lack of water or pressure available to a fire service.

#### **8.03 LOCATION**

##### **8.03.01 General**

All fire services will be located at a site meeting the approval of the District. In determining if a location is suitable for the installation of a fire service, the District will take into consideration operation and maintenance requirements and other factors deemed important, at any proposed site.

eff. 6/11/03

### **8.03.02        Treated Water System**

(a) New Service.        Faulty equipment or procedures which may be utilized by entities operating fire services on high pressure water mains can lead to physical injury of personnel, property damage, and can cause water main failures.

No new public fire hydrants will be allowed on District water mains where static pressures are 150 psi or greater. Prior to allowing public fire hydrants on water mains where static pressures are between 100 and 149 psi, the District will review each request on an individual basis. Approval or disapproval of each request, which will be made at the sole discretion of the District, will be based on consideration of such factors as size, type, and condition of water main, actual pressure, location of pressure-reducing stations, lower pressure water mains and other hydrants.

New private fire services, located on water mains where static pressures are 100 psi or greater, will not be allowed unless the applicant signs an agreement acknowledging the risks involved in a high pressure service, and holding the District free and harmless from liability and damages relating to the service. In addition, if the pressure is 150 psi or greater, the applicant will not be allowed to install any private hydrants or hose outlet stations on the fire service.

Fire pumper connections installed with proper check valves will be allowed.

eff. 10/24/90

(b) Existing Services. Existing public fire hydrants located on water mains where static pressures are 100 psi or greater may be eliminated when in the sole judgment of the District an adequate substitute water source, normally a lower pressure water main is available. The local fire fighting entity, in which jurisdiction of any public fire hydrant being considered for elimination is located, will be consulted prior to final determination; and a written 30-day notice will be provided prior to the actual removal or relocation of the fire service. All removal and re-

plumbing costs will be absorbed by the District when such removal is the sole decision of the District.

eff. 5/23/90; rev. 6/11/03

### **8.03.03          Raw Water System**

Due to potential of water loss and operation problems encountered with fire services off of the raw water system, the District will only allow such services under limited situations. If other alternatives, as determined by the District, are available to the fire fighting entity, no such service will be allowed.

No fire services will be allowed off of siphons or pipelines classified as transmission, as opposed to distribution lines. Locations subject to hydraulic conditions that restrict water flow will not be available for installation of a fire service.

eff. 3/13/85

## **8.04                          PUBLIC FIRE HYDRANTS ON TREATED WATER SYSTEMS**

### **8.04.01          General**

An application, Form 8-A, must be signed by applicant and the local fire fighting entity in which jurisdiction the hydrant is located and approved by District prior to the installation, relocation or removal of a hydrant on a District water main.

The charge for the hydrant installation, relocation or removal, as set forth in these Regulations, shall be paid by the applicant and/or local fire fighting entity at the time the application is submitted to the District.

Fire hydrants installed under these Regulations shall belong to the District. The District may bear the expense of performing hydrant maintenance resulting from normal wear and tear when

such conditions are reported to the District. The District may levy a charge for fire hydrant maintenance.

#### **8.04.02 Installations**

The charge shown in Schedule 8-A will be collected for all installations and provides for installation of a 2 ½" x 2 ½" x 4 ½" nozzle dry barrel hydrant conforming to AWWA Specification C502.

#### **8.04.03 Hydrant Removal**

The charge to remove a hydrant and discontinue the service will be as shown in Schedule 8-A.

There will be no charge to remove a hydrant or stand pipe classified as less than 5 ¼-inch barrel diameter when the removal is done in conjunction with the installation, at the same location, of a new hydrant.

eff. 6/11/03

#### **8.04.04 Installation of a Hydrant Near Existing Hydrant**

If a fire hydrant is to be installed at or near a location where there is existing hydrant coverage, as a requirement precedent to installing the new hydrant, the District reserves the right of discontinuing the existing hydrant and to levy the appropriate charge as shown in Schedule 8-A.

#### **8.04.05 Relocation of Hydrant**

The charge for the relocation of a hydrant will be the total of the charge for the hydrant elimination, Schedule 8-A, plus the charge for the installation of a new hydrant. No credit will be given for salvaged material unless the hydrant conforms to AWWA Specification C502 and can be reused, with only minor reconditioning, in which case a credit will be given as shown in Schedule 8-A.

Where the relocation or installation of a fire hydrant does not require a new connection to the main, the charge will be based on the District's actual cost.

## **8.05**

## **PRIVATE FIRE SERVICE ON TREATED WATER SYSTEM**

### **8.05.01 General**

An Application, Form 8-B, must be signed by applicant and the local fire fighting entity in which jurisdiction the service is located, and approved the District prior to installation of the private fire service. The Applicant will make the basic determination as to the size of the service; however, the District reserves the right to limit the size of the service allowed. A fee to compensate the District for estimating the cost of the service will be collected at the time the application is submitted to the District. See Schedule 8-B.

After installation, the private fire service, up to and through to the outside edge of the vault, shall belong to the District.

eff. 1/1/94; rev. 12/08/04

### **8.05.02 Installation**

Private fire services may be installed using three administrative processes, 1) District installed, or 2) Applicant installed using a Conveyance Agreement or 3) Applicant installed using an Applicant Constructed Private Fire Service Letter Agreement.

District installed private fire services shall be at the Applicant's cost as shown in Schedule 8-B.

Private fire services may be installed as a facility incidental to a water line extension being installed by a Developer under the provisions of a Section 10.03 Conveyance Agreement. The Applicant may also make arrangements to construct a private fire service to be connected to an existing water main by using the Section 10.03 Conveyance Agreement process in cases where the estimated installation costs exceed \$15,000.

Fire services that are not incidental to a proposed water line extension project may be installed by the Applicant using a private contractor under the provisions of an Applicant Constructed

Private Fire Service Letter Agreement, example of which is shown in Form 8-D. This method governs plans, specifications, construction, inspection, and other requirements for the Applicant and his contractor. These letter agreements and conveyance of the completed fire service are subject to approval by the General Manager.

eff. 12/12/90; rev. 12/08/04

#### **8.05.03          Service to More Than One Parcel**

As long as all the parcels involved are properly fronted by a water main, as required under Section 10.01.02 of these Regulations, and upon the written application of all landowners, up to four contiguous parcels may be served by one private fire service.

Property owner(s) of each parcel being served by a Private fire service must have a valid application on file with the District indicating their responsibility for paying all charges and penalties, along with their responsibility for maintaining the system beyond the private fire service.

In certain instances the District, at its sole discretion, may permit or require a single parcel to have more than one private fire service connection. Examples include a shopping center/business center with varied tenant water requirements or two commercial buildings located on one parcel.

rev. 12/08/04, rev. 03/10/10

#### **8.05.04          Charges for Water Service**

No charge will be made for water used for extinguishing fires, but any water lost through leakage or for testing purposes or used in violation of these Regulations shall be paid for by the applicant at double the normal water consumption charges. If unauthorized water use or leakage continues for more than two billing periods after notification of the water use, the service may be discontinued.

A periodic charge, as shown in Schedules 8-C and 8-D, will be made to compensate the District for maintenance and the eventual replacement of the private fire service.

Pursuant to Section 6.04 of these Regulations, delinquent charges may be placed as a lien against the parcel, or all parcels benefiting from the service in the case of service to more than one parcel. User(s) of the service understand that the fire service may be discontinued for nonpayment of charges and accept all risk of such discontinuance for nonpayment.

eff. 1/22/86

## **8.06 PUBLIC FIRE SERVICE ON RAW WATER SYSTEMS**

### **8.06.01 General**

An application, Form 8-C, must be signed by the local fire fighting entity in whose jurisdiction the fire service is located and approved by District prior to installation of the service.

These types of fire services are subject to extreme variations in flow. Temporary, seasonal and extended shutdown periods may be required in normal operation of the system. Water delivered to the service may contain debris which could affect the quantity of water available to the fire service because of plugging or clogging.

### **8.06.02 District Installation**

The District will install the outlet and shutoff valve immediately adjacent to the District facility at the applicant's cost.

### **8.06.03 Applicant Installation**

The applicant will be responsible for construction of all facilities downstream from the shutoff valve, including pipeline, storage sump and hydrant.

#### **8.06.04 Maintenance Responsibilities**

District may bear the expense of performing maintenance resulting from normal wear and tear on its facilities when such conditions are reported to the District. The District may levy a charge for maintenance. Facilities downstream from the shutoff valve will be the responsibility of the applicant to maintain.

#### **8.06.05 Discontinuing Service**

The service shall be used only for extinguishing fires and no connections of any kind whatsoever, other than to hydrants and hose reels, shall be made or permitted to be made to the pipe(s) supplied by said service.

Discovery of any unauthorized service or any water leakage from the applicant's facilities will result in discontinuation of said fire service until corrective action is taken.

#### **8.06.06 Charges for Water Service**

No charge will be made for water used for extinguishing fires or for periodic flushing of the service to remove accumulated debris.



## **SECTION 9**

### **BACKFLOW PREVENTION**

#### **9.01 GENERAL**

The purpose of these Regulations is to provide for the protection of the District's treated water system from actual, or potential contamination by isolating within the water user's premises any possible source of such contamination or pollution.

In accordance with the requirements of the California Administrative Code, Title 17, Chapter V, Sections 7583 to 7605 inclusive, the water supplier has the responsibility to prevent contamination of the public water system by backflow. No water service connection to any premises shall be installed or maintained by the District unless the public water supply is protected, as required by said State regulations and the requirements stated below.

These Regulations supplement and do not supersede local plumbing regulations, codes, ordinances, or other State Department of Health Services' regulations relating to water supply.

#### **9.02 TYPES OF PROTECTION**

In general, types of backflow prevention devices to be located at the point of service shall be as follows:

##### (a) Double Check Valve Assembly

This device is utilized where a lesser degree of protection against backflow is desired.

##### (b) Reduced Pressure Principle Device

Utilized in situations where a higher degree of protection is required than can be obtained from a double check valve assembly.

#### (c) Air Gap Separation

Requires an actual separation of the District's water system and the water user's piping. This requirement is only used where a maximum of protection against backflow potential is necessary.

The District has reviewed the degree of hazard, probability of backflow occurring and complexity of piping with possibility of modification for various classes of treated water users. Based on this review, as well as present requirements as indicated in the aforementioned California Administrative Code, the District has established a listing of the minimum protection type of backflow prevention device required for each type of water service. These requirements are listed in Schedule 9-A. Changes to this schedule may be made upon written approval of the Manager.

### **9.03 DISTRICT RESPONSIBILITY**

The District will install and maintain the required backflow prevention device. Only devices selected by the District and approved by the University of Southern California's Foundation for Cross Connection Control and Hydraulic Research, or approved by the California State Department of Health Services will be utilized.

The District shall cause inspections to be made at each backflow prevention device at least once a year. Only personnel certified for testing these devices by the California-Nevada Section of the American Water Works Association, the University of Southern California, or California State Department of Health Services, will perform the required tests. Test results and maintenance records shall be maintained by the District.

**9.04****WATER USER'S RESPONSIBILITY**

All costs incurred by the District for installation of the backflow prevention devices, as well as maintaining, replacing and testing these devices will be reimbursed by the water user to the District. These costs are shown in Schedules 9-B, 9-C, and 9-D.

The water user may be required to fill out a questionnaire regarding the degree of risk of backflow at the time water service is first requested and at other times deemed necessary by the District.

It is the further responsibility of the water user to inform the District of any change on its premises that might increase the risk of backflow into the District's treated water system.

**9.05****DISCONTINUANCE OF SERVICE**

The District may discontinue service of water to any premises and may physically disconnect the customer's piping from the District's water system if a backflow prevention device required by these Regulations is not installed, or if it is found that a backflow prevention device has been removed or bypassed, or for any other violation of these Regulations.

**9.06****RETROFIT PROGRAM**

Existing water services will be reviewed and prioritized according to their potential health hazard. On a staged basis, starting with higher risk services, the proper backflow prevention devices will be installed on a schedule to be determined by the District.

**9.07****REDUCTION IN DEGREE OF PROTECTION**

Where a change in Schedule 9-A, or the degree of hazard allows a customer to downgrade from a reduced pressure principle device to a double check valve assembly, the District, upon

determining that the premises requires less protection, will reduce the bimonthly charge to that associated with the double check valve assembly. No refund or partial refund of original installation charges will be made. If at a later date a reduced pressure principle device must be reinstated, the customer will be charged retroactively the difference between the lower and higher monthly charges, as shown in Schedules 9-C and 9-D, plus an interest factor to be determined by the District.

Where a change in these Regulations or the degree of hazard allows a customer to eliminate the backflow prevention device, the District, upon determining that the premises no longer requires the device and with approval of the customer, will remove the device at District cost and stop charging the bimonthly charge. No original installation charge refund will be made. If future circumstances require the reinstallation of a device, the full installation cost, as shown in Schedule 9-B, will be collected from the customer.

eff. 6/11/03, rev. 04/25/06, rev. 09/12/07

## **9.08 INCREASE IN DEGREE OF PROTECTION**

Where a change in Schedule 9-A or the degree of hazard requires upgrading from a double check valve assembly to a reduced pressure principle device, the customer will be charged the difference between the installation charges of the two devices, as shown in Schedule 9-B and will be subject to the higher bimonthly charges associated with the reduced pressure principle device.

eff. 6/11/03, rev. 04/25/06, rev. 09/12/07

**9.09****PRIVATE BACKFLOW PREVENTION DEVICES**

At the sole discretion of the District, a privately owned backflow prevention device may be allowed when a reduced pressure principle device is required to protect the public water supply.

If approval from the District is received to install a privately owned device, the customer must sign an agreement which sets forth the terms and conditions deemed necessary by the District. The agreement will cover issues relating to the ownership, installation, operation, maintenance and testing of the device as well as District access.

eff. 7/13/98; rev. 6/11/03, 04/25/06

## SECTION 10

### TREATED WATER SYSTEM EXTENSIONS

#### 10.01 GENERAL

The District's objective is to ensure that the water system will be able to provide adequate water service to all present and future customers in an orderly manner.

eff. 8/11/99

##### 10.01.01 Supplemental Definitions

(a) Extension. Any water system improvements required by the District to serve present and future customers in an orderly manner.

These improvements may include, but are not limited to, treatment plant facilities, domestic water storage, distribution and transmission water mains, pump stations, pressure reducing stations, private fire services, and other necessary appurtenances. Extensions may also include related raw water facilities needed to transport water to the treated water system.

eff. 8/11/99

(b) Developer. Any person desiring water service from the District which water service requires a system extension. A developer is considered a person, group or entity that is improving a parcel of land. District sponsored water line projects are not considered developer projects.

eff. 8/11/99; rev. 11/14/07

(c) Principal Property Frontage. Parcel frontage or combination of frontages on an adequate water main that best promotes the orderly development of the water system. Frontage along a primary access road will be a consideration in determining principal property frontage. The narrow frontage of a flag pole lot will not qualify as principal property frontage when not consistent with the orderly development of the water system.

eff. 8/11/99

(d) Adequate Water Main. A District water main with adequate capacity and pressure, and which is connected to a system with adequate source capacity.

eff. 8/11/99

#### **10.01.02      Extension Requirements**

(a) When a Treated Water System Extension is Required. The parcel must have an adequate water main along at least fifty percent (50%) of the principal property frontage, but not less than 50 feet. The District may require additional length or additional water mains at locations that best promote the orderly development of the water system. District's determination will be made on review of a submitted map.

eff. 8/11/99

(b) When a Treated Water System Extension is not Allowed. When an extension is not consistent with orderly development of the water system, an extension may not be allowed.

eff. 8/11/99

#### **10.01.03      Water Availability**

Developer must first make a written request for a letter of Water Availability. The request should include Assessor's Parcel Number(s), type of development, intended use of water, and fire flow requirements.

#### **10.01.04      Service Feasibility Study**

It may be necessary for the District to prepare a study in order to determine if service can be provided. If required, the study will be prepared at the sole cost of the developer on a time and material basis and will include, but not be limited to, computer analysis of the system and proposed improvements.

#### **10.01.05      Developer Option**

The developer may elect to take on the responsibilities of constructing the extension under provisions contained in Section 10.03 or, under certain qualifications, elect to have the District construct the extension as discussed in Section 10.04.

## **10.02                      EXTENSION SPECIFICATIONS**

### **10.02.01           Minimum Pipe Diameter**

All new water main installations will consist of a minimum pipe size of eight inch inside diameter where it is anticipated that the long sides of loops of which the extension is a part, will exceed 600 feet or where the extension will remain unlooped. In cases where loops will be formed smaller than 600 feet, a six inch inside diameter pipe will be the minimum pipe size considered. Cul-de-sac pipelines, not exceeding 600 feet in length, may be less than the minimum size if extensions are not anticipated and adequate fire flow can be obtained from the main line. Pipe sizes within new subdivisions, where strong grid systems are created, will be determined by hydraulic analysis, taking into consideration consumptive demands and required fire flows.

Further upsizing of the minimum pipe sizes may be required to meet requirements of the developer or to meet future needs of the District.

eff. 3/27/85

### **10.02.02           Development Standards**

The Board has adopted “Development Standards, Treated Water System.” The standards include Developer Requirements, and Standard Specifications and Details. These requirements and standards are to be used by developers, as well as their consulting engineers and contractors for proper planning, designing and construction of treated water system extensions. The standards will also govern work undertaken by District crews; however, the General Manager may approve, in writing, any necessary deviations to these standards to accommodate in-house construction activities.

Proposed changes and additions to the Standard Specifications will be submitted to, and coordinated by, the District’s Engineering Department.

Sections of the Standard Specifications adopted by the Board will require updating from time to time. Such changes must be approved by the General Manager and, at the General Manager’s discretion, may require approval of the Board.

New sections being added to the Standard Specifications must be adopted by the Board.



Standard Details will be prepared, when appropriate, to help emphasize the requirements found in the Standard Specifications. The Engineering Department will, from time to time, revise the details to reflect approved revisions to the Standard Specifications. If required, Standard Details will be prepared for new sections added to the Standard Specifications.

“Development Standards, Treated Water System” are available on the District’s website and at the District Main Office. Copies of the specifications and details for bidding purposes and use by a developer’s contractor must be provided by the developer.

Full size Standard Details, in the form of reproducible Mylars, will be made available at the appropriate fee.

No changes shall be made to the Standard Specifications and Details without prior written District approval.

eff. 3/9/94; rev. 6/11/03; rev. 1/26/11

## **10.03 DEVELOPER CONSTRUCTED**

### **10.03.01 Letter of Agreement**

A letter of agreement between the District and the developer will be signed prior to review of the developer’s plans. The letter of agreement will outline the procedure to be followed in allowing the developer to construct the extension. The developer must have the plans and specifications prepared by a licensed civil engineer. The plans and specifications must meet the District’s approval. The developer will also provide a licensed civil engineer to act as the project engineer during the construction phase.

### **10.03.02 Environmental Requirements**

The developer is responsible for preparing environmental documents per the California Environmental Quality Act (CEQA). Environmental documents completed in accordance with CEQA must be delivered to the District Engineering Department prior to approval of the improvement plans. The environmental documents shall describe all offsite work. For offsite work, the District shall either be the lead agency, or indicated in the environmental documents as the responsible agency.

eff. 1/26/11

### **10.03.03 Plan Check and Inspection Fee**

The developer will be obligated to pay all plan check and inspection costs, as determined on an actual time and material basis. The developer shall submit an initial plan check and inspection deposit of five (5) percent of the estimated construction cost of facilities to be dedicated to the District, but not less than \$2,000.

rev. 1/26/11

### **10.03.04 Conveyance Agreement**

Within 90 days of written approval of the plans and specifications for the proposed mainline extension, the developer must enter into a Conveyance Agreement (agreement) with the District. The agreement will ensure that construction of the extension will be in accordance with the District-approved plans and specifications and ensure the conveyance of the extension to the District after its completion. Standard provisions covering a labor and material bond, maintenance bond, insurance, time limits and other requirements are shown in Form 10-A. Special provisions may also be added to the agreement as found necessary by the District.

At the discretion of the General Manager, an additional six months to begin work beyond that provided in the agreement, and an additional six months to complete work beyond that provided in the agreement, may be allowed.

Any additional time extensions, if granted, must be approved by the Board.

eff. 1/10/90; rev. 6/11/03; rev. 1/26/11

### **10.03.05 Performance Guarantee**

The District may require the developer to furnish, prior to the start of construction, a performance bond or irrevocable letter of credit naming the District as obligee. Such performance guarantee must meet the District's approval as to form and surety utilized. This performance guarantee will be required if the District, at its sole discretion, requires assurance of the developer's performance. The guarantee amount will be as estimated by the District.

eff. 6/24/87

#### **10.03.06 Easements**

Developer shall provide to the District acceptable easements for the project prior to approval of plans. Easements will follow the District's standard easement format with appropriate legal descriptions. The District will record the easements for the project.

eff: 1/26/11

#### **10.03.07 Construction**

The extension must be constructed by a contractor holding a valid Class A (General Engineering Contractor) or C34 (Pipeline Contractor) California Contractor's license issued by the State Department of Consumer Affairs, Contractors State License Board. The District Engineer, or his/her representative, will inspect the work for compliance with the approved plans, specifications, and District standards. The developer will assume the cost of engineering and inspection services.

#### **10.03.08 Approved Plans Expiration**

Plans are valid for the time frames indicated in the Conveyance Agreement. Extensions will require re-review and approval by the Chief Engineer.

eff. 1/26/11

#### **10.03.09 District Acceptance**

The facility shall not be directly connected to District facilities until acceptance by the District. The Developer shall use a jumper assembly to separate the facility from the District until accepted. Exemption from the requirement for jumper facility requires approval of the Chief Engineer. Short main line extensions will generally be exempt at the discretion of the Chief Engineer. Upon completion of construction and compliance with all the terms and conditions of the conveyance agreement, and payment of all District plan check and inspection costs, the General Manager, on behalf of the District will accept conveyance and title of the extension. The District will then own, operate, maintain, repair and replace the improvements, except as specified during the maintenance warranty period. Upon acceptance of conveyance of the extension, the developer may apply for water service.

eff. 1/10/90; rev. 6/11/03; rev. 7/28/04; rev. 1/26/11

## **10.04 DISTRICT CONSTRUCTED**

### **10.04.01 General**

The developer may request the District to install any extension consisting of a water main installation which is less than 300 feet in length. In such cases, the District may take on the responsibility of designing and constructing the extension depending on the District's current work load.

rev. 1/26/11

### **10.04.02 Agreement**

A written agreement between the developer and the District will be required. The agreement will contain clauses outlining the District's responsibility to prepare engineering plans and specifications and construct the extension, payment for construction, and other conditions as deemed necessary by the District. A letter agreement, not requiring Board approval, will be used if the estimated cost is equal to, or less than \$15,000.

eff. 12/12/90; rev. 1/26/11

### **10.04.03 Construction Cost**

Schedule 10-A of these Regulations will be used to determine the District's charge to design and construct the pipeline.

The cost, as determined herein, will be stipulated in the agreement as the final cost to the developer for construction of the extension.

rev. 1/26/11

### **10.04.04 Payment Schedule**

At the time the agreement is signed, 50 percent of the construction cost must be paid to District. Actual construction will be scheduled only after the remaining 50 percent is received.

**10.05****DISTRICT FINANCIAL PARTICIPATION**

The developer may request, prior to consummation of a conveyance agreement, that the District participate financially for any portion of extension upsizing required by the District for future needs as opposed to developer's needs. All District participation is subject to availability of District funds. Participation including costs for engineering, land, easements and other ancillaries will not exceed the cost of a similar facility as listed in the latest District Capacity Charge Study subject to adjustments for inflation. Adjustments for inflation will be in accordance with District approved adjustments to capacity charges. In the case of water main installations, a pipe size less than the minimum pipe size, as discussed in Section 10.02.01, will not be considered adequate for the developer's needs.

Final determination of District participation will be made by the Board after review of the financial priorities of the District and included in the conveyance agreement.

rev. 1/26/11

**10.06****REIMBURSEMENT FEE**

The District will collect a reimbursement fee, where applicable, before granting a water service, including a private fire service, to a parcel which lies along and may be served directly from any pipeline extension installed under the provisions of these Regulations. The reimbursement fee for any parcel shall be determined by multiplying the front foot charge by the lineal feet of property frontage which lies along the extension. The reimbursement fee for an extension shall be in effect for a period of twenty years from the date of execution of the reimbursement agreement between the developer and the District. All monies collected will be returned to the developer.

No reimbursement fees will be collected unless the developer has signed a reimbursement agreement prior to District acceptance of the extension in the case of a developer-constructed extension. In the case of a District-constructed extension, reimbursement provisions will be included in the initial agreement.

All monies collected will be returned to the developer by registered mail to the last address on record at the District office. The developer shall be responsible for keeping the District record

current. Monies so delivered that are returned to the District shall be retained for the benefit of the developer for a period of one year. No other attempts will be made to locate the developer. At the end of the one-year holding period, the District shall return the principal amount to the then current owner of the parcel from which the reimbursement had been collected. The developer shall have no further claim to the monies. The reimbursement accounting system shall continue to indicate that the parcel has paid the reimbursement.

The developer will select, at the time a reimbursement agreement is signed, one of the following options for determining the front footage charge and parcels subject to a reimbursement fee.

Option A. The front footage charge will be determined by dividing the cost of the extension by the front footage along the extension of all parcels which may be served directly from the extension. Parcels already receiving District treated water, at the time a reimbursement agreement is signed, will be excluded in determining the front footage charge, even though future service may be made from the extension. All parcels, whose front footage was utilized in the calculation described above, will be subject to the reimbursement fee.

Option B. The front footage charge will be determined by dividing the cost of the extension by the front footage along the extension of all parcels which may be served directly from the extension. An existing parcel fronting the extension, and not currently receiving District treated water, will be subject to the reimbursement fee. An existing parcel fronting the extension, which currently receives District treated water, will only be required to pay a reimbursement fee if that current service is expanded or upsized, or if that parcel is split. In case of a parcel split, the existing service will be assigned, at the sole discretion of the District, to one of the newly created parcels. The remaining new parcel(s) which lie along and may be served directly from the extension will be subject to the reimbursement based on that parcel(s)' front footage along the extension.

Option C. The Developer may elect to provide for reimbursement from parcels that in the future, may obtain water service by formal variance and which service assembly is tapped directly onto the water main that is the subject of the reimbursement agreement. The Developer must request Option C, in combination with Option A or B, in writing and, in the same request,

state the number of desired future variances to be accommodated in the reimbursement agreement. The number shall be considered empirical in nature and not in any way assigned to, or attached to any one parcel or future parcel. District acceptance of the Developer's request shall in no way indicate or influence the probability of variances that might be approved in the future.

Each of the variances requested for accommodation in the reimbursement agreement shall be assigned a length of front footage equal to 125 feet but not more than fifty percent of the total length of the water line extension. This length shall be multiplied by the number of future variances requested by the Developer to be accommodated in the reimbursement agreement. This amount shall be added to the front footage as determined by either Option A or B. The front footage charge will be determined by dividing the cost of the extension by the sum of front footages including frontages assigned to variances as determined above.

The front footage charge as determined above shall be adjusted periodically to reflect changes in construction costs. Each agreement approved after the effective date of this revision shall provide for a yearly adjustment in the reimbursement charge based on the Engineering News Record - 20 Cities Average - Construction Cost Index from approximately July 1 to June 30 of the next year. This adjustment shall become effective on September 1<sup>st</sup> of each year. The first adjustment for any agreement shall be made after the agreement has been in full force and effect through one complete cycle of July 1 to June 30 [Example: An agreement approved in November of 2008 would receive its first front footage charge adjustment on September 1, 2010. The adjustment would reflect the change in the Construction Cost Index from July 1, 2009 to June 30, 2010].

Under any option, the front footage charge shall not be applied more than once to any parcel, and no one parcel will be required to pay a reimbursement fee in excess of fifty percent of the cost of the extension. The cost of the extension shall be considered to be the Developer's out-of-pocket expenses directly and solely related to the installation of the extension, as determined by the District. The Developer's on-site improvements will be excluded from the cost of the extension.

eff. 04/11/2001; rev 6/11/03; rev 11/9/05

#### **10.06.02 Reimbursement for District Installed Pipelines**

The District will collect a reimbursement charge, where applicable, before connecting a water service, including a private fire service, to a parcel which lies along and may be served directly from any pipeline installed by the District. The reimbursement charge for each parcel will be determined by specific methods established by District policy. The cost subject to the charge will be based on all costs to install the pipeline, including labor, equipment, materials, and incidentals for the design, installation, and inspection, legal costs, easements, environmental documentation, permits, and restoration. The reimbursement charge will be calculated to represent the proportionate costs of installing a distribution pipeline (8-inch diameter distribution pipeline, or larger if required for fire flow and other needs of the immediate area) for those parcels served and/or anticipated to be served directly by the pipeline, regardless of the actual pipe size installed by the District.

eff. 9/1/13

#### **10.07 PREPAYMENT OF CAPACITY CHARGES**

All treated water extensions serving greater than four parcels will require the payment of a minimum size meter capacity charge, as shown in Schedule 4-A, for each parcel to be served prior to District acceptance of the extension in the case of developer-constructed extension. District sponsored water line projects are not subject to the requirement of prepayment of capacity charges.

rev. 11/14/07

#### **10.08 REQUEST FOR VARIANCE**

##### **10.08.01 Request Procedure**

The applicant shall submit a completed Form 10-B Variance Request and pay an Administrative-Processing fee along with written permission from all property owners affected by the proposed service line (for water service to the applicant's property). The processing fee is non-refundable regardless of approval or denial of any part of the variance request.

eff. 6/9/99; rev. 1/26/11; rev. 10/9/13



#### **10.08.02      Review of Variance**

The Staff Variance Screening Committee, consisting of representatives from Management, Engineering Department, and Operations Department, as determined by the General Manager, will review requests for variances from District Regulations pertaining to treated water systems.

The Staff Variance Screening Committee may unanimously deny a variance. Applicant may appeal per Section 10.08.04.

The Staff Variance Screening Committee may unanimously recommend variance approval and conditions of approval to the General Manager. The General Manager may then approve the variance and conditions of approval.

If the Staff Variance Screening Committee and the General Manager are not in unanimous agreement, they will submit the Variance Request to the Engineering Committee. The Engineering Committee may unanimously deny the variance, and the applicant may appeal per Section 10.08.04. If the Engineering Committee does not unanimously deny the variance, it will make recommendations to the Board of Directors. The Board of Directors' decision, by majority vote, will be final.

eff. 6/9/99

#### **10.08.03      Expiration Date**

All approved variances will have an expiration date of not more than two years. All conditions of approval must be met before the expiration date. Thereafter, the District will consider the variance expired. After expiration, any request for variance will be considered a new request subject to the processing fee and all District regulations at the time of the new request.

eff. 6/9/99

#### **10.08.04      Appeal of Variance**

The applicant may appeal a denied variance. All appeals must be in writing and received by the District within 60 days from the date of written notice of the District's decision. After 60 days, a

request for appeal would be considered a new application requiring the applicant to submit a new Form 10-B and processing fee.

The first appeal would be made to the Engineering Committee, who may unanimously deny the appeal or forward the appeal to the Board of Directors with recommendations. If the Engineering Committee unanimously denies the appeal, the applicant may make a final appeal to the Board of Directors for a majority vote.

eff. 6/9/99

## **10.09 PRIVATE PIPELINE REPLACEMENT**

### **10.09.01 General**

In earlier years, the District allowed treated water service through private pipelines that served two or more parcels not fronting a District water main. As indicated in these Regulations, current requirements allow water service to a parcel only if it is adequately fronted by a District water main. Many of these aging private pipelines have experienced leaks that waste valuable District water supplies. In order to minimize this problem, the following participation program is available.

### **10.09.02 District Participation**

District participation will be considered on any private pipeline elimination project where District water main replacement is involved. The new water main must meet all requirements as contained in this section of these Regulations. The District will determine, at its sole discretion, if it is in the District's best interest to participate in any private pipeline elimination project. Upon determining to participate, and after signing an agreement with the private pipeline owner, the District will schedule the design and construction, taking into consideration the priority of other District activities.

eff. 2/12/92

### **10.09.03 Private Pipeline Owner Contribution**

At the time an agreement is reached for District participation, the private pipeline owner(s) will pay, as the owner's full share of project costs, 25 percent of the amount determined by Schedule 10-A (Note that Schedule 10-A does not include costs associated with right of ways). The 25 percent contribution is in addition to any payments made for right-of-way purchases, and any related legal cost. These costs will be paid 100 percent by the private pipeline owner(s).

If applicable, reimbursement provisions may be included in the agreement pursuant to Section 10.06 of these Regulations. These provisions will allow the private pipeline owner(s) and the District to share the collected reimbursement fees based on the percentage of project cost paid by each party.

eff. 8/14/91; rev. 6/11/03; rev. 1/26/11

## **10.10 TREATED WATER SERVICE THROUGH NEW PUMP STATIONS, STORAGE TANKS, AND PRESSURE REDUCING STATIONS**

### **10.10.01 General**

The developer may request, prior to execution of a conveyance agreement, that the District participate financially for construction of pump stations, storage tanks, and pressure reducing stations where those facilities provide regional benefit (as determined solely by the District).

eff. 7/11/90; rev. 3/24/04, rev. 1/26/11

### **10.10.02 Applicability**

Treated water service to parcels in new pump zones would only be applicable for areas with no upstream treated or raw water facility restrictions. The District reserves the right to limit service to the new pump zones if this expansion leads to upstream facility expansions, which are not cost effective or are not reasonably reimbursed through collection of the District's standard capacity charge.

eff. 7/11/90; rev. 3/24/04; rev. 1/26/11

### **10.10.03 Design Considerations**

In establishing a new pump zone, it will be the District's goal to minimize the size of pumps required to provide adequate service and to limit customer water outages. In most cases, a storage tank will be required to provide fire flow, peak hour demands as well as emergency storage. The physical size of the pump station, transmission main or storage tank may exceed the needs of the developer's property in order that additional parcels can be served. In order to adequately serve the new pump zone, the required storage tank site may be located outside of the developer's property. Installation cost of these facilities will be solely the responsibility of the developer subject to District participation and reimbursement per Sections 10.10.04 and 10.10.05. The developer is also responsible for all costs associated with the installation of the pipeline extension and any other appropriate fees and charges as set forth in these Regulations.

eff. 7/11/90; rev. 1/26/11

### **10.10.04 District Participation**

Refer to Section 10.05 for participation in pipelines. To be eligible for District participation, the facilities must be constructed with the review and approval of the District.

All District participation is subject to availability of District funds. Participation including costs for engineering, land, easements and other ancillaries will not exceed the cost of a similar facility as listed in the latest District Capacity Charge Study subject to adjustments for inflation. Adjustments for inflation will be in accordance with District approved adjustments to capacity charges.

eff. 1/26/11

### **10.10.05 Reimbursement**

Where pump stations, storage tanks and pressure reducing stations do not provide regional benefit, and are funded by the developer, and where customers outside of developer's land are allowed to be served from developer funded facilities (service directly connected), the developer will be entitled to reimbursement from said customers.

The District will determine the cost of the pump station and then divide this amount by the number of customers that can be served by the pump station including developer's land. The amount of reimbursement will not exceed the actual cost of the pump station. If it is determined by the District that excess pumping capacity is available, each additional customer obtaining service will be charged the previously described cost per customer. Any funds collected from this charge will be transmitted to the developer. The reimbursement will be available for a 20-year period from the date of District acceptance of the completed facilities.

No reimbursement fees will be collected from future customers unless the developer has signed a reimbursement agreement prior to District acceptance of the facility.

All monies collected will be returned to the developer by registered mail to the last address on record at the District office. The developer shall be responsible for keeping the District record current. Monies so delivered that are returned to the District shall be retained for the benefit of the developer for a period of one year. No other attempts will be made to locate the developer. At the end of the one-year holding period, the District shall return the principal amount to the then current owner of the parcel from which the reimbursement had been collected. The developer shall have no further claim to the monies. The reimbursement accounting system shall continue to indicate that the parcel has paid the reimbursement.

Reimbursements for pipelines are provided for in Sections 10.05 and 10.06 of these Regulations.

eff. 7/11/90; rev. 6/11/03; rev. 4/14/04; rev. 11/9/05; rev. 1/26/11

## **10.11 TREATED WATER SERVICE TO NEW PUMP ZONES**

### **10.11.01 General**

Having taken into consideration economic factors and physical restrictions, the District has established water service boundaries for each of its treated water systems. These boundaries indicate the extent that these systems may be expanded to provide treated water.

Areas containing parcels that would require the establishment of new pump zones to provide adequate water service were not included within the existing service area boundaries. These parcels were not considered economical to serve under the District's present water rate structure due to the excessive cost of operating and maintaining pump stations. The requirements contained herein, allows water service to be made available to parcels requiring new pump zones without creating an economic hardship on the District.

eff. 7/11/90; rev. 3/24/04

#### **10.11.02      Applicability**

Treated water service to parcels in new pump zones would only be applicable for areas with no upstream treated or raw water facility restrictions. The District reserves the right to limit service outside the established water service boundaries if this expansion leads to upstream facility expansions, which are not cost effective or are not reasonably reimbursed through collection of the District's standard capacity charge.

eff. 7/11/90; rev. 3/24/04

#### **10.11.03      Design Considerations**

In establishing a new pump zone, it will be the District's goal to minimize the size of pumps required to provide adequate service and to limit customer water outages. In most cases, a storage tank will be required to provide fire flow, peak hour demands as well as emergency storage. The physical size of the pump station, transmission main or storage tank may exceed the needs of the developer's property in order that additional parcels can be served. In order to adequately serve the new pump zone, the required storage tank site may be located outside of the developer's property. Installation cost of these facilities will be solely the responsibility of the developer. The developer is also responsible for all costs associated with the installation of the pipeline extension and any other appropriate fees and charges as set forth in these Regulations.

eff. 7/11/90

#### **10.11.04 Reimbursement**

If other customers who are not part of the developer's land are allowed to utilize excess storage or pumping capacity in the new pump zone, a reimbursement will be due the developer. The reimbursement will be available for a 20-year period from the date of District acceptance of the completed facilities.

Use of excess water storage from the new pump zone by other customers will be compensated for by the District paying the developer the current storage tank component of the capacity charges collected from these other customers.

The District will determine the cost of the pump station and then divide this amount by the number of customers that can be served by the pump station. If it is determined by the District that excess pumping capacity is available, each additional customer will be charged the previously calculated cost per customer. Any funds collected from this charge will be transmitted to the developer.

The costs used to determine reimbursement shall be adjusted periodically to reflect changes in construction cost. These adjustments shall be governed by Section 10.06 of these Regulations.

Reimbursements for off-site pipelines are provided for in Section 10.06 of these Regulations.

eff. 7/11/90; rev. 6/11/03; rev. 4/14/04; rev. 11/9/05

#### **10.12 TEMPORARY SERVICE LOCATION**

A Temporary Service Location (TSL) may be approved by the Variance Screening Committee (VSC) subject to certain requirements as described herein. The intent of the TSL is to provide a temporary water service to eligible parcels until a future water main is installed to serve the parcel(s) in accordance with Section 10. A TSL is a temporary service facility and is not considered a permanent service location.

#### **10.12.01 Eligibility**

A property owner is eligible for a TSL when the property: a) is located within the District Boundary; b) has an existing residential dwelling on the property (served by a water source - other than District treated water) or on a vacant property with the owner having applied for a building permit; c) is not currently fronted by a District treated water main; d) where water service to the property can be obtained from an existing water main; and e) where the orderly development of District facilities will logically require a mainline fronting the subject property in the future.

The subject property must front on a public road right-of-way, utility easement, public service easement, or abut the alignment for such right-of-way or easement as proposed by the District, or a city or county. Only properties that would be required to construct at least 300-feet of treated water extension (under Section 10 of the District Rules and Regulations) would be considered for a TSL, as determined by the VSC.

Only one (1) TSL will be allowed for each eligible parcel of land.

#### **10.10.12.02 Application and Request for TSL**

The applicant shall complete and submit Form 10-C, Temporary Service Location Request, an administrative processing fee as shown in Schedule 10-B, an 8½" x 11" scaled drawing or map showing the proposed temporary meter location and temporary service line, along with written permission by all property owners affected by the proposed temporary service line (for water service to the applicant's property). The processing fee is non-refundable regardless of approval or denial of the TSL Application.

#### **10.10.12.03 Review of TSL Application**

The VSC will review all TSL Applications to determine eligibility. The VSC may deny the TSL or recommend further action. If the VSC unanimously recommends the TSL, the application will be submitted to the General Manager for approval. The applicant will be notified of the



District's decision, and if approved, the notification will include a list of requirements to be completed by the applicant prior to scheduling the installation of the meter for the TSL.

The VSC may unanimously deny a TSL. Applicant may appeal per Section 10.12.04.

If the VSC is not in unanimous agreement, it will present the TSL Request to the Engineering Committee for consideration. The Engineering Committee may approve or deny the TSL. If denied, the applicant may appeal per Section 10.12.04.

#### **10.12.04      Appeal of TSL Denial**

The applicant may appeal the VSC's denial of a TSL Application. All appeals must be in writing and received by the District within 60 days from the date of written notice of the District's denial. Upon receipt of the request for appeal, the matter will be scheduled for consideration by the District's Engineering Committee or Board of Directors, as appropriate. The Engineering Committee may uphold or overturn the denial. If the Engineering Committee does not overturn the denial, the applicant may appeal the Committee's decision to the Board of Directors by written request to the Business Coordinator. The appeal will be scheduled for consideration by the Board of Directors at a regularly scheduled meeting of the Board of Directors.

#### **10.12.05      Requirements**

Upon receipt of notice that the TSL Application has been approved, the applicant must comply with the following requirements to obtain a TSL service:

- a. Pay any fees, or other monetary obligations, that are required for connecting to the existing District main for the temporary service (this may include obligations for existing reimbursement agreements, participation in an existing Improvement District or District Financed Water Line Extension (WLE) program, or participation in other financing districts that may pertain to the existing main);
- b. Pay two current meter installation charges (representing installation charges for connecting the TSL to the existing main and the connection charge for eventually relocating the connection to the future main at the permanent location - fronting

the subject property). The installation fees will be one (1) “Drop-in” fee and one (1) “Requiring Tap” fee as shown in Schedule 4-A;

- c. Pay the current capacity charge for treated water (based on the size of meter requested);
- d. Pay the current Treated Water Main (TWM) Contribution as defined herein;
- e. Provide copies of all required easements (executed and recorded) for constructing and maintaining the temporary service line (crossing neighboring parcels);
- f. Provide adequate easements or Rights-of-Way for the future water main and related appurtenances, if applicable;
- g. In the case of vacant property, provide copy of building permit issued by appropriate agency (District will issue conditional Will Serve Letter as needed);
- h. Execute Form 10-D, Agreement for Temporary Water Service and Contribution for Future Treated Water Main Extension;

#### **10.12.06 Expiration of TSL Application**

For a vacant property, an approved TSL Application shall remain in effect for a period of one (1) year following the date of approval by the District. For all other properties, an approved TSL Application shall remain in effect for a period of two (2) years following the date of approval by the District. If all requirements for the TSL have not been met by the expiration date, the TSL approval shall expire and become void.

#### **10. 12.07 Extension of Approved TSL**

A TSL Application approved for two (2) years may be extended by one (1) year. The applicant must submit a renewal application along with a processing fee as shown in Schedule 10-B which is non-refundable regardless of approval or denial of the TSL Renewal Application. The Renewal Application will be reviewed using the same process as the original application stated previously in this policy. Only one extension may be granted.

#### **10.12.08 Treated Water Main Frontage Contribution**

The Treated Water Main (TWM) Contribution represents the applicant's monetary contribution to the design and construction of a future pipeline that will eventually be installed by others

fronting the applicant's parcel. This contribution will be retained by the District, and accounted for separately, to supplement funds needed by a future developer, waterline extender, or by any District sponsored financing efforts to install the future treated water main.

For each TSL Application, the TWM Contribution will be determined based on the projected size of a single family residential lot that can be subdivided from the subject property at the smallest size (or maximum density), as defined by the General Plan of the appropriate County or City, as follows:

$$\text{TWM Contribution} = \sqrt{\text{size of lot (in square feet)}} \times \text{estimated cost of TWDM}^* \div 2$$

\*TWDM = Treated Water Distribution Main

The TWDM multiplier as shown in Schedule 10-B will be determined by the Engineering Department and revised or amended periodically to reflect updated estimates for the cost to provide and install distribution pipelines.

For a General Plan designation that is not residential use, the TWM Contribution will be based on the actual current size of the subject property.

Examples:

A. Gross Area of Subject Property = 6.05 Acres

General Plan Land Use = Rural Residential

General Plan Density = 5 Acres (Min)

Size of lot = 5.0 Acres x 43,560 SF/AC = 217,800 SF

TWDM = (See Schedule 10-B)

TWM Contribution =  $\sqrt{217,800}$  x TWDM  $\div$  2 = \$\_\_\_\_\_

B. Gross Area of Subject Property = 20.0 Acres

General Plan Land Use = Rural Residential

General Plan Density = 1 Acre (Min)

Size of lot = 1.0 Acre x 43,560 SF/AC = 43,560 SF

TWDM = (See Schedule 10-B)

TWM Contribution =  $\sqrt{43,560}$  x TWDM  $\div$  2 = \$\_\_\_\_\_

#### **10.12.09 Future Subdivision of Property**

The future subdivision of property with a TSL shall be subject to the District's Treated Water System Extension Policy (District's Rules and Regulations - Section 10) ). Upon subdivision, the District will credit the TWM Contribution to one of the property owners of the subdivided parcels/lots, the particular lot to be chosen at the District's discretion, and it will be assumed that the property owner of that lot will have met its obligation to the cost of the frontage mainline. The property owners of the remaining parcels/lots resulting from the subdivision will be required to pay the appropriate reimbursement for the mainline extension, based on the policy in effect at the time, without consideration of the TWM Contribution.

#### **10.12.10 Installation of Future Treated Water Main**

Upon the installation of the future treated water main abutting the subject property, the TSL applicant, or the successor, shall remove or abandon any on-site or off-site plumbing that is connected to the TSL service and shall connect to a newly installed service lateral and meter, pursuant to the agreement referenced in 10.12.05(h).

#### **10.12.11 Refund of other Monetary Obligations**

If, at the time of TSL approval, the District collected monetary obligations that were required in accordance with 10.12.05 (a), and to the extent that the collected funds have not been used for their stated purpose at the time the subject service is moved to its permanent location, the District shall refund the remaining funds. The recipient of the refund shall be to the property owner(s) on title to the subject parcel at the time of disbursement.

### **10.20 DISTRICT FINANCED WATERLINE EXTENSIONS**

The goal of this Section is to permit expansions of residential water service to new customers by authorizing planning services and an advance of District funds to eligible neighborhood groups actively seeking the extension of treated water line(s) into their community. Assistance offered by this program includes informative group meetings, providing project design and construction

services, providing advanced project funding, and providing a means for recovering project costs advanced by the District from the neighborhood over time. A project implemented through this Section shall be referred to as “District Financed Waterline Extension, or DFWLE.

#### **10.20.01 DFWLE Eligibility**

Neighborhood groups representing existing single-family residential dwellings, including duplex units, and to a limited extent, unimproved lots are eligible for the DFWLE program. The DFWLE program will not be used to finance treated water facilities for commercial or industrial land uses, or for lands under development through a use permit or for subdivisions, including planned unit or similar developments.

The intent of the DFWLE policy is to provide treated water to existing developed neighborhoods. Unless otherwise authorized, the number of unimproved parcels eligible for inclusion with any recognized neighborhood group will be limited to 20% of total potentially served parcels. A parcel shall be considered improved if a building permit has been issued for a residence on that parcel.

An eligible DFWLE must contain a minimum of 6 parcels, of which at least 5 must be improved, and a target maximum of 40 parcels. The minimum participation level will be calculated using 60% of the total parcels that the District determines could potentially be served by the DFWLE, rounded to the nearest whole number. Participation will be implemented through the execution of a DFWLE Funding Agreement as described below. A DFWLE Funding Agreement, fully executed by the interested landowners(s), must be delivered to the District and approved by the Board before it is effective. To avoid delays in construction, once the District issues a Notice to Proceed to the Contractor constructing the DFWLE facilities, no further Funding Agreements will be accepted by the District.

rev. 11/12/14

### **10.20.02 DFWLE Program Eligibility List**

The District will maintain a list (Eligibility List) of neighborhoods requesting participation in the DFWLE program. To be placed on the Eligibility List, a neighborhood must submit its request in writing. The request must include 1) a contact person and telephone number, 2) parcel number of each participating parcel, 3) owner(s) name and address for each parcel, and 4) signatures from each owner.

Priority will be established based on the date of addition to the Eligibility List, and on active participation. As shown on the flowchart, the Engineering Committee will determine the next neighborhood group eligible for funding under the DFWLE program and the Administrative Practices Committee will evaluate funding. At that time, with a recommendation from both Committees, the Board of Directors will consider encumbering DFWLE allocated funds and assignment of a rate of interest representing interest foregone by the District had the funds allocated for the DFWLE project been otherwise invested. Upon determination of the interest rate, the Board of Directors will assign a surcharge modifier to the DFWLE project. (The surcharge modifier is calculated as determined elsewhere in this Section.) Funds encumbered for an individual DFWLE and funds allocated for all DFWLE projects shall be subject to the discretion of the Board and to limitations imposed by the Board of Directors as part of its budgeting authority, and may be reduced or restricted as the Board deems necessary given the other financial demands on the District.

Once a project is deemed eligible as a DFWLE project, the District will incorporate the general program provisions, complete a Water Service Study, establish the maximum charge for recovering project costs, and solicit neighborhood commitment through an informative group meeting.

### **10.20.03 General Program Provisions**

Participation in the DFWLE program is voluntary. DFWLE project costs will be allocated equally among all parcels with potential service from the water line extension. The Board of

Directors will determine the level of funding available for all DFWLE projects on the Eligibility List on at least a yearly basis.

The District will advance the funds necessary to meet the costs for eligible DFWLE project(s) approved by the Board of Directors, less the total amount of good-faith deposits received. The District will recover the funds advanced through the application of the Service Extension Charge (SEC).

District funds advanced to the DFWLE program for participating parcels which submit a good faith deposit will be recovered through the application of a Service Extension Charge (SEC). The maximum cost recovery time period will be 20 years. The SEC will be collected as part of the participating parcel's treated water bill. The SEC will include a surcharge modifier to compensate the District for the loss of interest earnings as a result of funding participating parcel's share of the DFWLE costs. DFWLE costs allocated to parcels without an executed funding agreement will be subject to the Districts Reimbursement Policy #3175.

Costs eligible for advance by District under the DFWLE program include preliminary design, compliance with CEQA, design, rights of ways, construction, construction management, and capacity and meter installation charges for a domestic meter. The maximum amount of financeable project facility costs, including capacity and meter installation charges, is \$30,000 per participating parcel.

The applicant shall complete and submit an Application, Form 10-E, requesting to participate in the District Financed Waterline Extension Program, and the District will charge an administrative processing fee as shown on the application. The processing fee is non-refundable regardless of completion of the waterline extension project.

#### **10.20.04      Service Extension Charge (SEC)**

A Service Extension Charge (SEC) will be used to recover over time District funds advanced for DFWLE project costs from participating parcels that have paid a good faith deposit. The SEC

will be added to, and become part of the water bill for each of the participating parcels. The maximum SEC required to support project costs allocated to each participating parcel (“Total Costs”) will be determined in the Water Service Study as defined in Section 10.20.06. The SEC to appear on the water bill will be calculated following compilation of all project costs. The SEC will be calculated as 1) the total project costs, 2) subtract the total good-faith deposits received, 3) add the total capacity and meter installation charges, 4) divide by the number of potentially served parcels, 5) divide by the total number of anticipated billing periods within the cost recovery period, and 6) multiply by the surcharge modifier as determined elsewhere in this Section.

The SEC will be the same for all participating parcels within a particular DFWLE project and will not change once it first appears on the water bills.

#### **10.20.05      Surcharge Modifier**

A surcharge will be used to compensate the District for the loss of interest earnings as a result of funding any particular DFWLE project. The surcharge will be used to modify the SEC. The surcharge modifier will be determined by the District Board of Directors on a case-by-case basis by first establishing the rate of interest the District funds could have otherwise earned. The surcharge modifier will be calculated as 1) the Capital Recovery Factor 2) multiplied by the number of billing periods within the project cost recovery period (20 years).

#### **10.20.06      Water Service Study**

The District will complete a Water Service Study for the next eligible DFWLE project as determined by the Engineering Committee. Prior to beginning the study, the District will investigate the area surrounding the core neighborhood group to map the parcels which could potentially receive water service from the DFWLE. Should the District determine that expansion of the project to other parcels is necessary for the orderly expansion of the distribution system; the District will add the parcels to the DFWLE group.



The Water Service Study will include at least:

- a. Project location map and preliminary facility layouts
- b. Delineation of potential parcels served from DFWLE
- c. Project costs; including preliminary design, compliance with CEQA, design, rights-of-ways, facilities construction, construction management, and contingencies.
- d. District participation in facility costs if appropriate, pursuant to District policy (including the Capacity Charge Study).
- e. Capacity and Meter Installation charges for a minimum-size water meter.
- f. Maximum Total Charge
- g. Maximum Service Extension Charge (SEC) required to amortize the Maximum Total Charge.

The cost estimates and SEC quoted in the Water Service Study will be honored for a minimum of 12 months, giving time to complete formation of the group, and execution of a Funding Agreement with each participating parcel.

The District will perform the Water Service Study without charge to the neighborhood group.

#### **10.20.07 Initial Group Meeting**

Upon completing the Water Service Study, the District will notify the group contact person and arrange for an initial group meeting. The District will present the findings of the study and answer questions.

#### **10.20.08 Good-Faith Deposit**

Should the neighborhood group demonstrate a willingness to proceed with the DFWLE project based on the maximum SEC quoted during the initial group meeting; the District will request an application and a good-faith deposit from each of the participating parcels. A good-faith deposit must be received from approximately 60% of the benefitted parcels as calculated in accordance

with Section 10.20.01 and will be applied against the total project cost so as to reduce the SEC for each participating parcel.

The deposit amount will be at least 10% of each participating parcel's share of the estimated project cost, excluding capacity and meter installation charges. The deposit amount will be adjusted above 10% if necessary so that the DFWLE participant will not receive funding in excess of the maximum amount allowed per participating parcel (\$30,000).

As established in the flowchart, after the District's request to all participating parcels to execute an application and make a good faith deposit, each participating parcel must sign and return a letter containing the terms and conditions of the deposit, and return the deposit with the letter. Should one or more prospective participating parcels fail to return the deposit amount and a countersigned deposit letter; the non-responsive parcel(s) will be removed from the neighborhood group list. If this process results in less than the minimum participation from the potentially served parcels as calculated in accordance with Section 10.20.01 within the allowed solicitation period, all deposits will be returned and the project will be removed from the eligibility list.

Once a good-faith deposit and executed letter have been collected from approximately 60% of the potentially served parcels as calculated in accordance with Section 10.20.01, the District will request the owner(s) of each participating parcel to enter into a Funding Agreement. The District will also begin charging expenses against the project for inclusion in the Total Charge. Retroactive charges, representing costs incurred to that date by the District will not be applied to the Total Charge to be recovered under the Funding Agreement.

If, during development, but after receipt of the requisite number of good faith deposits, the project fails due in whole or in part to the actions or inactions of the participating parcels, the DFWLE will be discontinued and the amount of good-faith deposit that remains unused at the time will be split equally among participating parcels and returned. If the project fails due solely to the actions or inactions by the District, the total amount of good-faith deposits will be returned.

#### **10.20.09      Easements - Subordination of Agreement/Easements**

Concurrent with the submission of the good faith deposit, owners of participating parcels must agree that before the commencement of construction by District, and in no event later than the date of execution of a Funding Agreement, they will, when requested, convey to the District easement(s), in the form prepared by the District, that the District determines are necessary for installation and maintenance of the waterline extension project. Owners must also agree to seek and obtain subordination from any mortgagor or holder of deed of trust or other lien holder of a security interest in the parcel, subordinating their security interest(s) to the District easement, the Funding Agreement, and the lien authorized under the Funding Agreement. For any necessary easements required for the waterline extension over property owned by other persons or entities, which are not participating parties but from whom an easement is required, the participating owner will seek to facilitate, in cooperation with other participating owners, the subordination of any mortgagors, trustors, or lien holders in favor of the District's easement. The Funding Agreement will specify that the District may refuse to execute the Funding Agreement, or if executed, cease the design and implementation of the pipeline extension financing project, with no further rights or obligations between the parties, in the event the District determines, at its sole discretion, that any failure to subordinate by a participating property owner's lender or the lender for a parcel owned by another person or entity renders the project not in the best interest of the District. The District is not required to initiate proceedings in eminent domain to acquire any easement or subordination required for the DFWLE. All required right of way documentation, including subordinations necessary for a pipeline extension project must be executed and effective prior to the start of construction.

In the event that a prospective participating owner cannot obtain subordination, they may submit a written request for waiver to the General Manager. The General Manager may modify or waive the requirement to obtain subordination including title insurance, in those circumstances where it is determined that the value of the District's interest is so small as to render such documentation economically unreasonable; the risk of foreclosure is so small that it is not considered a realistic risk; and/or the lender or senior lienholder provides the District with alternative assurance satisfactory to the General Manager, that the District's easement will not be disturbed by a senior

lienholder. The General Managers determination can be appealed by written request to the Administrative Practices Committee (APC), who may by unanimous action grant the appeal, deny the appeal, or forward the appeal to the Board of Directors with or without recommendation. If the APC denies the appeal, the applicant may make a final appeal to the Board of Directors. The decision of the Board of Directors shall be made in its sole and unlimited discretion and will not be subject to appeal.

#### **10.20.10      Funding Agreement**

The owner(s) of each participating parcel must enter into a Funding Agreement, subject to approval by the Board of Directors, as found in Form 10-F attached to these regulations. Special provisions may be added to, or other revisions made to the Funding Agreement form as found necessary by the District under the circumstances of each transaction. The Funding Agreement will be recorded against the participating parcel.

The Funding Agreement, once recorded, will authorize a lien by the District on the participating parcel for the purpose of collecting all delinquent water account charges, including the accumulated SEC.

Project design work will not begin until approximately 60% of the potentially served parcels as calculated in accordance with Section 10.20.01 have executed a Funding Agreement, returned it to the District, and the agreement has been recorded with the County Clerk.

#### **10.20.11      Project Cost Compilation and SEC Adjustment**

Following completion of construction of the DFWLE facilities, project costs will be compiled and a final Total Charge will be calculated. The District will analyze the project costs and issue a project completion Cost Accounting Report. The report will recalculate, based on actual project costs, all program variables, including the SEC.

If the Cost Accounting Report indicates that the Total Charge requires an SEC greater than the maximum SEC appearing in the Funding Agreement, the SEC will remain unchanged and the

District will pay the overrun. The District will not place further claim on participating parcels for the amount of the overrun.

If the Cost Accounting Report indicates that total project costs allow an SEC less than the maximum SEC appearing in the Funding Agreement, the District will adjust the SEC accordingly to the lower amount appearing in the report. The revised SEC and associated monthly payment will be included with the next water bill for each of the participating parcels.

#### **10.20.12 Failure to Pay Treated Water Bill**

Failure to pay a treated water bill as required in the Funding Agreement, including the SEC, will result in a delinquent account and, if not paid in accordance with District rules, a subsequent notice of turn-off, followed by turn-off. Upon issuance of a turn-off notice, whether or not the service is actually discontinued, all delinquent amounts will become due and payable. Treated water service will remain off and the SEC will continue to accrue, along with all other appropriate and customary charges, until the account has been paid in full. Unpaid balances shall constitute a lien against the participating parcel.

#### **10.20.13 Pre-Payment of Project Costs and Charges**

Upon completion of construction, compilation of project cost, and final SEC adjustment (if required), a participating parcel may pre-pay all or a portion of its Total Charge, including capacity and meter installation charges. Multiple pre-payments will be accepted without penalty from each participating parcel during the cost recovery period.

Upon receiving a pre-payment from a participating parcel, the time allocated for cost recovery will be reduced. The number of billing periods by which the cost recovery period will be reduced will be determined by 1) dividing the pre-payment amount by the SEC amount, 2) multiplying the results by the surcharge modifier declared by the Board of Directors, and rounding down to the nearest whole number. The fraction remaining, if present, will be 1)

multiplied by the SEC, 2) divided by the surcharge modifier, and 3) the resulting dollar amount will be credited to the participating parcel's treated water account.

Upon any sale, conveyance, assignment, or other transfer of the parcel, excluding transfer to a spouse, immediate family member, or to a living trust for estate planning purposes established by the current property owners, the Funding Agreement will terminate and any unpaid portion of the Total Charge will be immediately due and payable in full.

#### **10.20.14 Subdivision of a Participating Parcel**

Upon the subdivision of a participating parcel, the District will assign the existing treated water service account (including the SEC) to one of the newly created parcels or units. All other parcels or units created by the subdivision will be subject to the District Installed Waterline Reimbursement Policy when applying for a new service.

#### **10.20.15 Reimbursement**

The District will collect the proportionate share of the DFWLE cost as reimbursement from any parcel that did not execute a Funding Agreement as a condition of connection to the DFWLE pipeline. These parcels will be subject to the District Installed Waterline Reimbursement Policy #3175. The District will not collect reimbursement from non-participating parcels that have been granted a temporary service location (TSL). (Reference is made to the District's TSL policy.)

Eff. 11/13/13, Rev. 03/12/14

## SECTION 11

### RAW WATER SYSTEM EXTENSIONS

#### 11.01 GENERAL

##### 11.01.01 Supplemental Definitions

(a) Extension. Includes any raw water system extensions, enlargements or improvements necessary to transport, store and/or deliver raw water. These improvements may include, but are not limited to, canals, ditches, pipelines, measuring and regulatory structures, pump stations, regulatory reservoirs and other necessary appurtenances.

(b) Developer. Any person desiring raw water service from the District, which service cannot be provided without an extension.

##### 11.01.02 Purpose

The purpose of these Regulations are to provide for the orderly development and extension of the District's raw water system, to allow a means for developers to obtain some reimbursement for cost incurred in expanding the District's raw water system and to provide a method of compensating the District for added operation and maintenance costs.

##### 11.01.03 Extension Review

Prior to approval of an extension of District's raw water system which will serve, or is contemplated in the future to serve, four or more parcels, a District review will be completed. This review, financed by the developer, will determine if it is in the best interests of the District to own and maintain the extension, and whether it will also be necessary for the developer to expand a portion of the existing District's raw water system, in order to provide raw water to the parcels desiring service.

**11.02****PRIVATELY OWNED**

If after review it is determined that the extension is to remain in private ownership, the developer must make satisfactory arrangements with the District to assure that the extension is operated and maintained in an efficient manner.

The developer will also be required to submit to the District sufficiently developed plans on his proposed extension to determine if the extension will affect the operation or maintenance of the District's raw water system. If, in the opinion of the District, a conflict exists, the extension plans must be modified to District satisfaction. No water service will be allowed until a District field check confirms that the approved plans have been followed in constructing the extension.

It is the responsibility of the owner to operate and maintain the private extension at no cost to the District. Users who waste water, either willfully, carelessly, or due to defective or inadequate private extensions, may be refused services until the conditions are remedied. The District will not maintain private extensions, but may make emergency repairs at the expense of the owner. The District shall have access to the private extension in order to ensure compliance with these Regulations.

**11.03****DISTRICT OWNED**

If the review determines that it would be in the best interest of the District to own the extension, the developer will be notified of this decision and will be required to follow the remaining portion of these Regulations.

Except as otherwise noted in these Regulations, all costs related to expanding and extending the District's raw water system to serve water to the developer's property are to be at the sole cost of the developer.



#### **11.03.01 Capacity**

All new extensions will have a minimum capacity of 5 cubic feet per second. The actual size of any new extension will be determined by the District based on design considerations and master planning determinations.

#### **11.03.02 Other Design Considerations**

The extension will be designed in accordance with District specifications. These specifications will include requirements for earth compaction, side slope stability, maximum allowed velocities, canal freeboards, berm widths and permissive radius curves and other details necessary to minimize operation and maintenance problems. The District will be the sole judge in determining the need for piped and lined sections of the extension, as well as other related structures.

#### **11.03.03 Letter of Agreement**

A letter of agreement between the District and the developer will be signed prior to review of the developer's plans. The letter of agreement will outline the procedure to be followed in allowing the developer to construct the extension. The developer must have the plans and specifications prepared by a licensed civil engineer. The plans and specifications must meet the District's approval. The developer will also provide a licensed civil engineer to act as the project engineer during the construction phase.

#### **11.03.04 Plan Check and Inspection Fee**

Plan check and inspection fees and deposits are stipulated in Section 10.03.02.

#### **11.03.05 Conveyance Agreement**

Upon written approval of the plans and specifications for the proposed extension, the developer must enter into an agreement with the District, which will ensure the District that construction of the extension will be in accordance with the District approved plans and specifications and to insure the conveyance of the extension to the District after its completion. Standard provisions covering a labor and material bond, maintenance bond, insurance and other requirements are

shown in Form 10-A. Special provisions may also be added to the agreement, as found necessary by the District.

#### **11.03.06 Performance Guarantee**

The District may require the developer to furnish, prior to the start of construction, a performance guarantee as discussed in Section 10.03.04.

#### **11.03.07 Construction**

The extension must be constructed by a Class A California Contractor retained by the developer. The District Engineer, or his representative, will inspect the work for compliance with the approved plans, specifications and District standards.

The developer will assume the cost of engineering and inspection services.

#### **11.03.08 District Acceptance**

Upon completion of construction and compliance with all the terms and conditions of the conveyance agreement, and payment of all District plan check and inspection costs, the District will accept conveyance and title of the extension. The District will then own, operate, maintain, repair and replace the improvements, except as specified during the maintenance warranty period. Upon District acceptance of the extension, the developer may apply for water service.

#### **11.03.09 Operation and Maintenance Considerations**

If, at the time the extension review takes place, it is determined by the District that the District could not justify absorbing the additional operation and maintenance costs incurred because of the extension, arrangements to the District's satisfaction must be made so that customers from the extension would pay not only the standard water rates, but also an incremental charge based on actual operation and maintenance cost of the extension. These arrangements may include formation of an improvement district formed in compliance with Section 23600 of the California Water Code, or special district that the District may legally contract with, to enable the District to

be reimbursed for extension operation and maintenance costs. Final arrangements will be spelled out in the conveyance agreement.

eff. 6/11/03

#### **11.03.10 District Financial Participation**

The developer may request, prior to consummation of a conveyance agreement, that the District participate financially for any portion of extension upsizing required by the District for future needs as opposed to developer's needs. In the case of an extension, a capacity less than 5 cubic feet per second, as discussed in Section 11.03.01, will not be considered adequate for the developer's needs.

Final determination of District participation will be made by the Board after review of the financial priorities of the District and included in the conveyance agreement.

#### **11.03.11 Front Footage Reimbursement**

The District will collect a front footage charge, where applicable, before granting a water service to premises which lie along, and may be served directly from, any extension installed under the provisions of these Regulations. The front footage charge of an extension shall be in effect for a period of twenty years from the date of execution of the agreement between the applicant and the District.

The front footage charge shall not be applied more than once to any premises. Except for unusual conditions, premises already served at the date of installation of the extension will be excluded in determining the front footage charge, even though service may be made from the extension. The front footage charge will be determined by dividing the cost of the extension by the front footage of all premises which lie along and may be served directly from the extension. The cost of the extension shall be considered to be the Developer's out-of-pocket expenses directly and solely related to the installation of the extension, as determined by the District. The Developer's on-site improvements will be excluded from the cost of the extension.

rev. 8/22/06

## SECTION 12

### INTERFERENCE WITH DISTRICT FACILITIES

#### 12.01 UNLAWFUL ACTS

For the protection of public water supplies, many offenses are by State Law made misdemeanors for which the offender may be criminally prosecuted. Attention is called to the following section of the Penal Code, making it illegal to interfere with or take water from any District conduit, without permission of the District, or to dump rubbish, filth, or any substance into a District conduit.

Section 498 — Stealing water, taking water without authority, or making unauthorized connections.

Section 625 — Taking water after works have been closed or meter sealed.

Section 592 and 627 — Interference with pipelines or conduits.

Section 607 — Injuring tanks, flumes, reservoirs, etc.

Section 624 — Breaking, cutting or obstructing pipes, etc.

#### 12.02 ABATEMENT OF NUISANCE

No material affecting the quality of water shall be placed, dumped or be permitted to drain into a District conduit or reservoir. Obstructing the flow of water, scattering of noxious weeds, plants or grasses where it can roll, slide, flow, be washed or blown into a District conduit or reservoir is prohibited. All septic tanks, leach lines and structures must meet county conduit setback and

permit requirements, as well as the District encroachment permit provisions set forth in Section 14 of these Regulations. Violations of these requirements will subject offender to criminal prosecution.

#### **12.03                      DAMAGE TO DISTRICT PROPERTY**

Any damage occurring to a District facility, or any property of the District, caused by a water user or any other person, must be paid for by that party.

#### **12.04                      UNAUTHORIZED TAKING OF WATER**

Unauthorized connections, or the taking of water in an amount greater than applied for, and paid for, by any means, is subject to prosecution. For the first offense, water illegally taken will be billed at District rates and a penalty as shown in Schedule 12-A shall be assessed. For the second offense, the water illegally taken will be billed at double District's rates; and a penalty as shown in Schedule 12-A shall be assessed. In addition, the water service application will be conditioned for a three year period; and during this period, if these Regulations are not complied with, the service outlet will be removed and water service terminated. The foregoing shall be in addition to the right of criminal prosecution and the right to refuse service.

#### **12.05                      STORM WATER**

The unintentional collection and conveyance of storm water by District facilities, such as Canals, Flumes and Ditches, present an ongoing and significant threat to system operations and private, public, and District facilities and properties. These threats routinely manifest as overflows, seepages, point discharges, and canal failures. In order to minimize and reduce impacts to the District, all land planning, development, and improvement review processes that the District evaluates, will require, at a minimum, that interested parties shall address the following:

- Maintain historic watershed flows within the parent watershed
- Eliminate direct, and minimize indirect contributions by requiring land developers to route storm water away from the District's facilities
- Reduce direct and indirect contributions by providing the appropriate infrastructure to prevent storm water infiltration into District facilities.
- Advocate development authorities at cities and counties to establish guidelines to insure that development improvements located upslope and downslope of District facilities be located, designed and constructed to accommodate high storm water flows and to avoid discharge into District facilities or minimize impacts from storm water to District facilities.

Existing developments requesting improvements will have current drainage impacts on District facilities reviewed, and may require improvements to protect existing District facilities. When existing storm water issues are identified, the District will remove or cause modifications of storm water routing to eliminate those impacts.

Eff. 1/28/2015

## **SECTION 13**

### **ACCESS, RIGHT-OF-WAY AND PROPERTY MANAGEMENT**

#### **13.01 SUPPLEMENTAL DEFINITIONS**

##### **13.01.01 Private Road**

Any road which does not fall under the jurisdiction of a public entity.

##### **13.01.02 Road Maintenance**

Any work which entails the improvement of the drainage system and/or improvement in the traveling surface of the road.

##### **13.01.03 Prescriptive Easement**

The rights adhering to the District due to open, continuous and notorious use of land for a period of longer than five years, prior to 1972.

eff. 6/11/03

##### **13.01.04 Spill Channels**

Usually natural drains utilized by the District to spill waters from raw water facilities on a routine and/or emergency basis.

#### **13.02 ACCESS TO FACILITIES AND LAND**

##### **13.02.01 District Access**

By applying for or receiving water service from the District, each water user irrevocably licenses the District and its authorized employees and agents to ingress and egress over and across water user's lands by means of roads and lanes thereon, if available, otherwise by such route or routes as shall cause the least practicable damage and inconvenience to the water user. Such right of ingress and egress shall not extend to any portion of said lands which is isolated from District

facilities by any public road or highway now crossing or hereafter crossing said lands. If any portion of said lands is or shall be subdivided and dedicated roads or highways or such portion extends to District facilities, the right of ingress and egress on said portion shall be confined to such dedicated roads and highways. This right shall be for the purpose of inspection, examination, measurements, surveys or other necessary purposes of the District, with the right of installation, maintenance, repair, replacing, control and regulation of all meter, measuring devices, gates, turnouts, canals, pipelines or other structures necessary or proper for the transportation, distribution, storage or measurement of water. Means of access shall be by foot, vehicles and equipment operated or under the control of the District.

#### **13.02.02 Private Facilities**

District employees and representatives of the federal, state and local authorities shall have the right of ingress and egress of the customer's premises at reasonable hours for any purpose reasonably related to the furnishing of water service and the exercise of any and all rights secured to it by law, or these Regulations, including inspection of the water user's piping and equipment as to compliance. The water user shall provide and maintain reasonable access to all such equipment.

#### **13.02.03 Land Surveys**

Pursuant to Government Code Section 22229, District employees shall have the right to enter upon any land to make surveys and determine the location of any facility thereon and for surveys and investigation of soil conditions prior to the commencement of property acquisition.

### **13.03 PRESCRIPTIVE EASEMENTS**

The District has, through operation of its system and long continued use, acquired certain property rights in lands within the District. These rights normally pertain to the use of canals, ditches, water lines and roads, which usage has been developed over a substantial period of time.

### **13.04 SPILL CHANNELS**

The District has the right to utilize natural watercourses, ravines, and randoms, for the transmission of District controlled water, or for use for spillage or excess of storm water runoff.



The use of such natural watercourses can take place at any time and without notice to the affected property owners. No construction should take place within the bed or banks of a natural watercourse or random without determining the extent and frequency of District use of said watercourse, if any.

## **13.05 PRIVATE ROADS**

### **13.05.01 Routine Use**

The District shall not provide road maintenance on private roads except as required for District vehicles and equipment which may use the road on a routine basis for ingress and egress purposes. Road maintenance by District shall be limited to that required to keep it in a usable condition for District use only.

### **13.05.02 Specific Damage**

When specific, identifiable damage is done to a private road by District's vehicles or equipment, the District shall restore the road to an equal condition as existed on the day prior to being damaged.

### **13.05.03 District Contribution**

Any request for District participation to the cost of maintaining private roads must be made in writing and directed to the General Manager. The written request must contain information as to the road mileage involved, type of surface to be maintained, and the amount being requested from the District. Upon approval of the General Manager to contribute towards the road maintenance, the following formula will be used to compute the District's participation. The mileage shall be based on the preceding year's usage. The formula shall be reviewed every 5 years.

Miles per trip x trips per day x number of days per year =

Mileage per year x 10 cents = District Contribution

Minimum = \$50.00      Maximum = \$300.00

eff. 6/25/97; rev. 6/11/03

#### **13.05.04 Right-of-Way Agreements**

Nothing in these Regulations shall supercede or contradict any responsibilities of the District regarding maintenance of private roads which have been set forth in valid right-of-way agreements.

#### **13.06 DISTRICT ROADS**

Any roadway within a District easement, even though the roadway may be used by others, shall be maintained only to a condition as required for the District's use. In the event that these roads may be upgraded by other parties for their use, the District will not be responsible for damages to this road surface by District vehicles or equipment. Restoration of the road surface shall be at the sole discretion of the District for the use of District equipment and vehicles.

#### **13.07 QUITCLAIMS**

Parcels of land can be encumbered with easements granted the District which contain no facilities. Application may be made to the District on Form 13-A to quitclaim an easement back to the landowner.

A non-refundable fee of \$250.00 is due at the time of application. The District will review the application, and if approved, will process a quitclaim deed. Prior to recording the deed at the appropriate county clerk's office, the applicant must pay the recording fee.

eff. 12/12/90; rev. 6/11/03, 10/27/10

#### **13.08 EASEMENTS ON DISTRICT LANDS**

Procedures for applying for easements on District lands is the same as outlined in Section 13.07. In addition to the non-refundable fee of \$250.00, a payment for the value of the easement, as determined by the District will be required.

eff. 12/12/90

## **13.09**

## **ABANDONMENT OF RAW WATER FACILITIES**

### **13.09.01 General**

The following regulations are to be followed by the District when considering raw water facility abandonments.

Abandonments are normally considered for facilities where operation costs greatly exceed revenue due to use by a limited number of customers, relocation of new facilities, and for facilities in urbanizing areas. Facilities in the second category are associated with problems involving water quality degradation, seepage, maintenance and public safety if open canal sections exist.

eff. 6/11/03

### **13.09.02 Resolution of Intention to Abandon**

A proposed resolution will be prepared and made available for public review, along with related documents or studies pertaining to the abandonment. A public hearing will be held pursuant to District procedures to consider adoption of the resolution. A fourteen day minimum notification period for the hearing will be required. All current District customers receiving water service from the affected facility will also be notified by direct mailing of the hearing date. The Board, at the hearing, shall consider all the evidence presented, along with any necessary environmental documentation. If the Board determines at the hearing that the facility should be abandoned, it will adopt the resolution.

eff. 6/11/03

### **13.09.03 Resolution of Facility Abandonment**

After all necessary modifications, replumbings and other related work necessary to allow abandonment of the facility is completed, the Board will consider adopting this resolution, which will declare the abandonment of the facility and all related unneeded easements. The resolution will be recorded with the appropriate County Clerk.

eff. 6/11/03

#### **13.09.04      Current Customers**

The District, at no initial cost to the customer, will provide all current inside District customers on the facility to be abandoned, an alternate water supply in a manner as determined by the District. Future operation and maintenance costs associated with private facilities necessary for the new water supply plus water charges, if any, will be the financial responsibility of the customer. In cases where a treated water supply is provided in place of the raw water supply, the customer may elect the option of being charged on the same raw water rate schedule in effect prior to the facility abandonment with no increase in water deliveries allowed. This option will terminate two years after the resolution of facility abandonment is adopted, and the customer will then be charged the appropriate treated water rate.

eff. 6/28/89; rev. 6/11/03

## **SECTION 14**

### **PHYSICAL ENCROACHMENTS TO DISTRICT FACILITIES**

#### **14.01 SUPPLEMENTAL DEFINITIONS**

##### **14.01.01 Physical Encroachments**

Includes, but is not limited to, structures such as buildings, bridges, culverts, fences, pipelines, underground or overhead wires, roads, landscaping, which either cross, or lie within District rights of ways, or which become so close or near to District rights of ways, as to unreasonably interfere or potentially interfere with the District's operation of its facilities or with necessary improvements or reconstruction of its facilities.

eff. 2/26/86

##### **14.01.02 Authorization**

Authorization for encroachment construction issued by the General Manager allowing the construction of a physical encroachment subject to the terms and provisions of the authorization.

eff. 6/11/03

##### **14.01.03 Encroachment Permit**

A permit issued by the General Manager authorizing the existence of a permanent physical encroachment, subject to the terms and provisions of the permit.

eff. 6/11/03

##### **14.01.04 Permittee**

Any person issued an encroachment permit by District.

#### **14.01.05      Unauthorized Physical Encroachment**

A physical encroachment for which an encroachment permit or authorization has not been issued.

### **14.02                      AUTHORIZATION**

#### **14.02.01      Preconstruction Requirements**

Prior to the construction or installation of any physical encroachment, the person causing the construction, or installation of a physical encroachment, shall first make application to obtain authorization from the District (Form 14-A).

#### **14.02.02      Construction Work**

The construction and installation of any physical encroachment shall be performed in accordance with District approved plans and specifications and subject to the approval of the General Manager. The District reserves the right to inspect the installation or construction at any time. Applicant shall assume and pay all costs and expense of constructing and installing the physical encroachment and shall clean the area or ground in which the physical encroachment exists, in a manner satisfactory to the District. Should the applicant fail to complete construction and installation of the physical encroachment to the District's satisfaction and approval, then the District may, at its option, either complete the construction and installation of the physical encroachment, or cause the removal of the physical encroachment. Should this be necessary, the applicant shall bear all cost and expense for labor, materials, and supplies associated with such work.

eff. 6/11/03

#### **14.02.03      Water Outage Necessary for Construction**

Prior to commencing construction and installation of any physical encroachment which shall lie within, or cross over District facilities to such an extent as to cause a muddy water condition, fluctuation, or interference in any manner with the flow of water in District facilities, applicant shall request District, in writing, for an interruption in the flow of water through District facilities, commonly referred to as a "water outage." District may arrange with the applicant to provide a water outage at such time as is convenient to the District. Applicant shall provide District with at

least 10 days advance notice of his plan to construct, or install a portion of the physical encroachment within District facilities causing the interruption, or interference with water flow, so that the District may plan for an outage. If, in the District's opinion, the outage will cause a significant cost to the District, the applicant will be required to pay such costs.

## **14.03 ENCROACHMENT PERMITS**

### **14.03.01 Issuance**

The General Manager may issue an encroachment permit following the construction and installation of a physical encroachment, all in conformance with the terms and provisions of the authorization. The encroachment permit shall provide for the existence of the physical encroachment subject to the conditions, terms and provisions set forth in the permit and the Regulations of the District. See Form 14-B.

eff. 6/11/03

### **14.03.02 Maintenance of Physical Encroachment**

It shall be the applicant, or permittee's obligation to maintain, repair, operate and replace the physical encroachment at all times at said applicant's, or permittee's sole cost and expense. All maintenance, operation, repair and replacement work performed upon the physical encroachment shall be conducted in a manner and to a condition satisfactory to the General Manager. If, in District's sole discretion, improvements, expansion or reconstruction of District facilities is required, the permittee, at permittee's sole expense shall be required to improve, reconstruct or remove the encroachment facilities as required to permit the performance of the District work. Should the permittee neglect, fail to promptly make repairs, or perform maintenance at permittee's sole cost, District may make such repairs, or replacement, or perform such maintenance as is necessary, or remove the physical encroachment and the cost shall be paid by the permittee.

eff. 2/26/86; rev. 6/11/03

### **14.03.03 Revocation**

District may revoke or cancel the encroachment permit upon giving notice to permittee of District's intent to cancel, or revoke the permit and upon giving the permittee an opportunity to be

heard regarding the cause of revocation or cancellation. Should permittee fail to file a written request for hearing with District regarding the proposed revocation or cancellation of permit, within 10 days of District's providing notice of District's intent to cancel or revoke the permit; then such permit shall be deemed revoked or cancelled. Should permittee file a written request for a hearing with District, then District shall set a time and place for the hearing and provide notice to permittee. District shall, within 10 days subsequent to the hearing held regarding cancellation or revocation, provide written notice to permittee of District's decision to revoke or cancel the permit or to maintain the permit together with the conditions of the permit in full force and effect.

## 14.04 UNAUTHORIZED PHYSICAL ENCROACHMENT

#### 14.04.01 Notification and Penalty

District shall exercise due diligence to determine the owner of the unauthorized physical encroachment and upon such determination, District shall notify the owner of the unauthorized physical encroachment, in writing, of the owner's need to make an application for the issuance of either an authorization and/or an encroachment permit, as deemed appropriate by the District. Such notification shall be delivered by District to the owner of the unauthorized physical encroachment by registered mail, return receipt, and should 14 days expire from the time the District deposits notification to the owner in the mails without the owner making proper application to the District, then the District may remove or cause the removal of the unauthorized physical encroachment at the owner's sole cost and expense. Upon removal, District shall send a bill for services rendered in removing the encroachment to the owner of the encroachment to be paid within 30 days of District's mailing the bill for services rendered. Should the District determine that the owner of the unauthorized physical encroachment refuses to either remove the encroachment, or make proper application, then the District may assess a penalty of \$100.00 against the owner of the unauthorized encroachment in addition to any other remedies provided herein.

In the event that an encroachment permit, or similar agreement, is obtained and recorded with the title to the affected parcel of land, the District may participate in the cost of the removal and/or replacement of a culvert.



In addition, in cases where the owner of an unauthorized culvert refuses to remove the unauthorized obstacle, or does not respond to the District's Notice, and, in the opinion of the General Manager, removal of the culvert is not practical, the District shall remove and replace the culvert in accordance with District Standards at the owner's sole cost and expense; in that case, the District shall send a bill for material, equipment and services to the owner of the encroachment.

eff. 2/26/86, rev. 5/23/07

#### **14.04.02      Immediate Threat to District Facilities**

Should the District determine that the unauthorized physical encroachment is an immediate threat to the safe operation of District facilities, the District shall exercise due diligence to determine the owner of the unauthorized physical encroachment and upon making such determination, District shall exercise due diligence to notify the owner to immediately cause the removal of the unauthorized physical encroachment. Should the District determine that the owner of the unauthorized physical encroachment refuses to remove such encroachment, then the District may assess a penalty charge to be levied against the owner of the encroachment and the District may either remove, or cause the removal of the unauthorized physical encroachment, at the sole cost and expense of its owner. Should District be unable to notify owner of the need to immediately remove, or cause the removal of the unauthorized physical encroachment, District may remove, or cause the removal of the unauthorized physical encroachment, at the sole cost and expense of owner.

eff. 2/26/86; rev. 6/11/03

## **14.05**

## **DOCKS**

### **14.05.01 Scope**

This subsection applies only to the construction and maintenance of docks on District property by persons having pre-existing rights under deeds or contracts to which the District is a party, or persons applying under dock authorization programs approved by resolution of the Board of Directors. If the deed, contract or program which authorizes a dock on District property requires public access, the permittee must allow such access (as specified in the permit); however, the issuance of a dock encroachment permit, Form 14-D, does not confer any right to conduct commercial activities on District property. All dock encroachment permits shall be subject to the District's rights and powers to operate its dams and reservoirs for District purposes, including the right to draw down the water level below dock elevations. Permittees must comply with all applicable federal, state and local laws, regulations and ordinances. The adoption of these regulations does not constitute an acknowledgement by the District that any particular persons or lands have right to construct and maintain docks on District property.

eff. 3/10/93; rev. 8/13/03

### **14.05.02 Supplement to General Encroachment Regulations**

The provisions contained herein are intended to supplement the general physical encroachment regulations of the District to provide specialized requirements with respect to docks to be allowed on District property. Therefore, the provisions contained herein shall prevail over any inconsistent provisions in the general physical encroachment regulations.

eff. 3/10/93; rev. 8/13/03

### **14.05.03 Application Requirements**

(a) An application for a dock permit shall at a minimum include the following:  
Completed dock Encroachment Permit Application Form 14-C; the submittals to accompany this Application shall be as follows:

(b) A site plan indicating the proposed location of the dock/gangway and dock approach, and an elevation sketch that depicts the visual appearance of the dock;

(c) Plans and specifications for the dock, gangway and associated facilities, including a description of the method of securing them in-place, and proof of engineering satisfactory to the District including standard commercial products designed for and commonly used in this application;

(d) A list of material types to be used in the dock, gangway and associated facilities.

(e) If the application is made under a program approved by the Board of Directors to issue permits for existing docks, it shall include photographs of the existing dock/gangway, and construction details including a list of materials used;

(f) Evidence of proper insurance coverage; and

(g) Application fee.

eff. 8/13/03; rev. 4/14/04

#### **14.05.04 Requirements for Dock Location, Design and Installation**

(a) Dock Location and Capacity. Docks will be permitted only for those parcels in existence at the time of board resolution and regulation adoption, and adjoining the District's lakeside property and shall be located adjacent to the parcel served. Only one (1) dock will be permitted for each such parcel. Upon approval of the District, combined docks may be constructed to serve multiple parcels. The docks shall be designed, constructed and operated to accommodate no more than two (2) watercraft for each parcel served. The Board of Directors may specify supplemental dock criteria when adopting a resolution authorizing docks on a particular reservoir.

(b) Dock/Gangway Dimensions. In each area where docks are permitted, the District, after consultation with the appropriate safety authorities, shall establish the limit lines, not to exceed forty (40) feet from the high water line/spillway elevation, on the maximum intrusion of docks into the reservoir. Docks shall be designed in such a fashion as not to exceed the limit lines established by the District. The maximum area occupied by individual docks shall not exceed three hundred twenty (320) square feet including the slip area between fingers, and any ramps for

personal watercraft. The maximum dimension (length or width) shall be twenty-four feet. Gangways shall be construction with a minimum width of thirty-six (36) inches and a maximum length of twenty (20) feet. The Board may allow variances from the limit lines and gangway lengths upon a finding that the proposed variance is not contrary to the best interests of the District.

(c) Materials.

Structural: The main support structure for Docks/Gangways shall be constructed with an aluminum frame or other material as approved by the District.

Decking: Decking material for Docks/Gangways shall consist of one or more of the following:

Aluminum with ribbed, knurled, sand blasted surface

Trex wood-polymer composite decking (wood fibers and plastic)

Timber-tech composite decking (recycled wood and synthetic materials)

PVC vinyl extruded decking (polyvinyl material)

Or equal as may be approved by District

Coatings: Paints, preservatives and other materials shall be compatible with the aquatic environment.

Flotation: Only floating docks will be permitted. Polystyrene foam filled polyethylene, aluminum tubs or equivalent shall be used for floatation.

Mooring: All materials used in mooring docks, gangways and associated facilities shall be approved by the District.

(d) Licensed Contractor. The docks, gangways and associated facilities shall be installed by properly licensed contractors in accordance with District approved plans and specifications.

(e) Structures and Appurtenances. Dock Whips, Safety Ladders and Personal Watercraft Docks shall not be constructed without District approval. No permanent structures, gazebos or swim slides will be allowed.

(f) Identification. Each dock shall be equipped with a metal plate readily visible from the lake, for placement of an identification tag issued by the District.

(g) Variances. If the application is made under a program approved by the Board of Directors to issue permits for existing docks, the Board may allow variances from the foregoing requirements for dock location, design and installation.

eff. 8/13/03; rev. 4/14/04

#### **14.05.05 Safe Siting**

The District reserves the right to deny an application for a dock encroachment permit if the District determines, in its sole discretion, that the proposed dock will pose an unreasonable risk of injury, death or property damage to members of the public lawfully using the reservoir; or will be inconsistent with the proper operation of the reservoir including but not limited to its operation for recreational purposes.

The District may require permit holders to provide and maintain appropriate signs, marker buoys, log booms and other safety features (herein “associated facilities”) to reduce the risk of injury, death or property damage in connection with the permit holders’ docks.

eff. 8/13/03; rev. 4/14/04

#### **14.05.06 Other Approvals**

If the applicant requests a permit for construction of a dock or gangway not in compliance with material or specifications as stated in Section 14.05 the applicant shall be responsible for preparing documentation and supplying information sufficient to comply with the California Environmental Quality Act. The applicant shall be responsible for paying any/all fees of any reviewing agencies. To the extent, if any, that other agencies have jurisdiction to approve or disapprove the construction of the proposed dock, the applicant shall be responsible for compliance with their requirements.

eff. 8/13/03

#### **14.05.07 Insurance**

Each dock encroachment permit holder shall at all times maintain liability insurance coverage covering any dock, gangway and associated facilities so permitted. Such insurance shall contain the following coverage:

- (a) Minimum \$500,000 for individual docks serving individual parcels.
- (b) Minimum \$500,000 each parcel under separate ownership for joint-use docks serving separately owned parcels.
- (c) Minimum \$1,000,000 for docks serving multiple parcels under the same ownership.

The District reserves the right to require coverage commensurate with increases in cost-of-living indices from time to time. The District and any lessee or concessionaire on the reservoir shall be named as additional insureds on any such policy. The permit holder shall deliver to the District a certificate of insurance verifying the required coverage.

eff. 8/13/03; rev. 4/14/04

#### **14.05.08 Reservoir Use Fees**

If the dock is constructed on a reservoir which is managed by the District, or a lessee or concessionaire, watercraft owners or operators using the reservoir shall pay the same amount as the Season Pass per slip (i.e., per watercraft) as charged by the District, a lessee or concessionaire for other watercraft using the reservoir. The watercraft owners shall not be subject to mooring fees unless using the mooring facilities of the District, a lessee or concessionaire. The Season Pass Fee shall be due and payable at the beginning of each calendar year.

eff. 8/13/03

#### **14.05.09 Fees**

The District will establish from time to time reasonable application fees, permit fees and renewal fees for docks subject to these regulations, which shall be the responsibility of the applicant/dock owner to pay.

eff. 8/13/03

#### **14.05.10      Revocation of Permit**

Dock encroachment permits may be revoked only for good cause, and after notice and opportunity to be heard, as provided in Section 14.03.03. Good cause shall mean a failure or refusal to correct violation of the requirements of this subsection and any applicable requirements of Section 14 within a reasonable time after notice of violation. Good cause shall also mean the existence of conditions creating unreasonable risk of injury, death, or property damage to members of the public lawfully using the reservoir, which conditions cannot otherwise reasonably be mitigated.

Upon revocation of a dock encroachment permit, the dock, gangway and associated facilities shall be treated as an unauthorized encroachment subject to the removal provisions of Section 14.04.

eff. 12/9/92; rev. 8/13/03; rev. 4/14/04

## APPENDIX A

**2015**  
INDEX TO SCHEDULES

<u>PAGE NO</u>	<u>SCHEDULE NO</u>	<u>DESCRIPTION</u>
1 & 2	-	Index to schedules.
3 & 4	<a href="#"><u>4-A</u></a>	Treated water system, standby charges and connection fees.
5	<a href="#"><u>4-B</u></a>	Miscellaneous meter service charges.
6	<a href="#"><u>4-E &amp; 4-F</u></a>	Water rates covering treated water meeting State Health standards, utilized for noncommercial and commercial purposes.
7	<a href="#"><u>4-G</u></a>	Water rates covering Auburn Greens residential condominium units.
8	<a href="#"><u>4-H</u></a>	Tank or temporary construction water service.
9	<a href="#"><u>4-I</u></a>	Off-rate charges for Treated Water Systems.
10	<a href="#"><u>5-B</u></a>	Raw water service outlet, installation charges.
11	<a href="#"><u>5-C</u></a>	Raw water service outlet, periodic charges.
12	<a href="#"><u>5-D</u></a>	Water rates for raw water utilized inside District on an annual basis.
13	<a href="#"><u>5-F</u></a>	Water rates for raw water utilized in Smartville on an annual basis through a metered connection.
14	<a href="#"><u>5-G</u></a> & <a href="#"><u>5-H</u></a>	Water rates for seasonal raw water utilized inside District and seasonal raw water utilized outside District
15	<a href="#"><u>5-I</u></a>	Water rates for raw water utilized on a demand basis.
15	<a href="#"><u>5-J</u></a>	Water rates for raw water utilized during fall season.
15	<a href="#"><u>5-K</u></a>	Water rates for intermittent flow raw water.
16	<a href="#"><u>5-L</u></a>	Energy pumping cost for raw water served from Magnolia #3 Pump System.
116	<a href="#"><u>5-M</u></a>	Energy pumping cost for raw water served from Edgewood Pump System.
17	<a href="#"><u>5-R</u></a>	Municipal Water Rates, inside & outside district.



## INDEX TO SCHEDULES (continued)

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18	<a href="#"><u>6-A</u></a>	Miscellaneous charges, rendering and payments of bills.
18	<a href="#"><u>7-A</u></a>	Special service call.
19	<a href="#"><u>8-A</u></a>	Charges related to public fire hydrants on treated water systems.
20	<a href="#"><u>8-B</u></a>	Private fire services on treated water systems, installation charges.
21	<a href="#"><u>8-C</u></a>	Private fire service, with detector check, on treated water systems, bimonthly charges.
21	<a href="#"><u>8-D</u></a>	Private fire service, with double detector check on treated water systems, bimonthly charges.
22 & 23	<a href="#"><u>9-A</u></a>	Backflow prevention requirements.
24	<a href="#"><u>9-B</u></a>	Backflow prevention devices, installation charges.
25	<a href="#"><u>9-C</u></a>	Backflow prevention devices, bimonthly charges for double check valve assembly.
25	<a href="#"><u>9-D</u></a>	Backflow prevention devices, bimonthly charges for reduced pressure principle device.
26	<a href="#"><u>10-A</u></a>	District constructed mainline extensions, installation charges.
27	<a href="#"><u>10-B</u></a>	TSL Treated Water Main Contributions
28	<a href="#"><u>12-A</u></a>	Penalties for unauthorized taking of water.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-A  
EFFECTIVE APRIL 1, 2015

**TREATED WATER SYSTEM  
STANDBY CHARGES AND CONNECTION FEES**

---

**STANDBY CHARGES** - \$6.00 per month for each parcel.

**CONNECTION FEES** 1/ Single family residence, commercial, industrial, and municipal.

**\*\*DROP-IN TO AN EXISTING METER BOX AND WATER SERVICE LATERAL\*\***

----- Capacity Charge -----

<u>Meter Size</u>	<u>Max Rated Capacity</u>	<u>Installation Charge</u>	<u>Parcels in District Prior to 3/1/07</u>	<u>Parcels Annexed to District after 3/1/07</u>
5/8"	20 gpm	581.00	\$9,516.00	\$12,762.00
3/4"	30 gpm	614.00	13,703.00	18,377.00
1"	50 gpm	654.00	24,360.00	32,672.00
1 1/2"	100 gpm	893.00	54,810.00	73,511.00
2"	160 gpm	1,071.00	97,440.00	130,686.00
Over 2"			DETERMINED BY DISTRICT	

**\*\*INSTALLATION REQUIRING TAP TO WATER MAIN\*\***

----- Capacity Charge -----

<u>Meter Size</u>	<u>Max Rated Capacity</u>	<u>Installation Charge</u>	<u>Parcels in District Prior to 3/1/07</u>	<u>Parcels Annexed to District after 3/1/07</u>
5/8"	20 gpm	\$1,553.00	\$9,516.00	\$12,762.00
3/4"	30 gpm	1,589.00	13,703.00	18,377.00
1"	50 gpm	1,636.00	24,360.00	32,672.00
1 1/2"	100 gpm	2,831.00	54,810.00	73,511.00
2"	160 gpm	4,025.00	97,440.00	130,686.00
Over 2"			DETERMINED BY DISTRICT	

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-A  
EFFECTIVE JANUARY 1, 2015

**TREATED WATER SYSTEM CONNECTION FEES – CONTINUED**

**MULTI-UNIT 2/ RESIDENTIAL DEVELOPMENT** for which a master meter is required.

<u>Meter Size</u>	<u>Connection Fees</u>
5/8"	\$ 581.00 + unit charge/unit
3/4"	614.00 + unit charge/unit
1"	654.00 + unit charge/unit
1 ½"	893.00 + unit charge/unit
2"	1,071.00 + unit charge/unit
over 2	Actual cost of installation plus unit charge/unit

<u>Type Development</u>	<u>Unit</u>	<u>Unit charge</u>
Mobile Home Park	Pad	\$ 3,325.00
Apartments	Dwelling	4,658.00
Senior Apartments 3/	Dwelling	1,981.00
Motels, Hotels	Dwelling	2,178.00
Campgrounds	Pad	3,680.00
Hospitals	Licensed Bed	3,567.00
Convalescent Hospitals & Resthomes:		
Skilled nursing	Licensed Bed	2,109.00
Board and care	Licensed Bed	1,135.00

- 1/ Varies with type of development
- 2/ Multi unit is defined as three or more.
- 3/ Proof must be provided that apartments are being developed under county ordinances relating to senior apartments or senior independent living centers.

**ABANDONMENT OF AN EXISTING SERVICE**

Customer requesting new meter installation at a location other than existing box and curb stop will be charged an abandonment fee of \$343.05. Existing box and curb stop will be removed and the area backfilled. Customer will be responsible for re-vegetation or landscaping.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-B  
EFFECTIVE JANUARY 1, 2015

**MISCELLANEOUS METER SERVICE CHARGES**

---

**TESTING**

**METER SIZE**

**DEPOSIT**

5/8" TO 3/4"  
1" AND ABOVE

\$15.00  
DETERMINED BY DISTRICT

**UPSIZING/DOWNSIZING**

An extra \$40.00 will be charged to cover labor costs as discussed in Sections 4.07.01 and 4.07.02.

**RELOCATING**

Meter relocations meeting the conditions set forth in Section 4.07.03 (a) (not requiring a new tap to the water main nor other extra ordinary effort) will be accomplished at the rate indicated under "Drop-In to an Existing Meter Box" schedule.

Meter relocations meeting the conditions set forth in Section 4.07.03 (b) (requiring a new tap on the water main) will be accomplished at the rate indicated under "Installation Requiring Tap to Water Main" schedule.

Customer requesting meter relocation will be charged an abandonment fee of \$343.05. The existing box and curb stop will be removed and the area backfilled. Customer will be responsible for re-vegetation or landscaping.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-EI & 4-FI  
EFFECTIVE JANUARY 1, 2015

**NONCOMMERCIAL / COMMERCIAL, INSIDE DISTRICT**

Charges for treated water meeting state health standards, delivered through a metered connection.

Service Size:	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Minimum Bi-Monthly Rate:	41.69	62.54	104.23	208.47	333.55	625.40	1,042.34	2,084.68	3,335.50

USAGE RATES: (\$ per hundred cubic feet (hcf) per billing period)

First	10 hcf per billing period	1.72 per hcf
Over	10 hcf per billing period	2.22 per hcf

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-EO & 4-FO  
EFFECTIVE JANUARY 1, 2015

**NONCOMMERCIAL / COMMERCIAL, OUTSIDE DISTRICT**

Charges for treated water meeting state health standards, delivered through a metered connection.

Service Size:	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Minimum Bi-Monthly Rate:	52.11	78.18	137.70	260.59	416.94	781.75	1,302.93	2,605.85	4,169.36

USAGE RATES: (\$ per hundred cubic feet (hcf) per billing period)

First	10 hcf per billing period	2.15 per hcf
Over	10 hcf per billing period	2.79 per hcf

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-G  
EFFECTIVE JANUARY 1, 2015

---

**RESIDENTIAL CONDOMINIUM, INSIDE DISTRICT**

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Charges for treated water meeting state health standards, delivered through a metered connection to existing Auburn Greens residential condominium units.

MINIMUM BI-MONTHLY RATE:       \$41.69

USAGE RATES: \*\* (\$ per hundred cubic feet (hcf) per billing period)

First	* 40 hcf per billing period	.43 per hcf
Over	40 hcf per billing period	.56 per hcf

\*10 hcf per unit

\*\* 1/4 of non-commercial usage rate

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-H  
EFFECTIVE JANUARY 1, 2014

**TANK OR TEMPORARY CONSTRUCTION WATER SERVICE  
FROM AN OPEN CANAL AND/OR FIRE HYDRANT**

---

**GENERAL**

- 1) The application charge of \$100.00 is nonrefundable.
- 2) The minimum monthly charge shall be \$85.00.
- 3) Applicants who do not turn in tank tally sheets and/or meter readings by the 10th of each month, for the previous month's usage, will be billed at two (2) times the minimum monthly charge or the estimated usage. Billing under this schedule shall not create a credit for future delivery of water.
- 4) This class of water is not to be used for domestic purposes except in an emergency situation as determined by Nevada Irrigation District.

**TREATED WATER**

- 1) Application will automatically be terminated at end of calendar year.
- 2) A deposit of \$900.00 will be collected for the meter and wrench assembly and is refundable after the water used is paid in full, the hydrant has been inspected to determine that no damage has occurred, the meter and fire hydrant wrench have been returned undamaged and all damages to District facilities have been paid in full. Any default on the conditions of the application will result in forfeiture of the deposit.
- 3) Treated water will be billed at 2.5 times the rate shown in Schedule 4-EI.
- 4) Meter readings shall be turned into the District office at the first of each month.
- 5) The minimum monthly charge or the monthly billing for water usage, whichever is greater, will be levied until the meter is returned.
- 6) Applicant will be responsible for backflow prevention as shown in Schedule 9-A.

**RAW WATER**

- 1) Application will terminate at the end of each year unless requested by customer by Dec 10.
- 2) Raw water will be billed at twice the rate shown in Schedule 5-F.
- 3) Tank tally sheets shall be turned into the District office at the first of each month.
- 4) The minimum monthly charge or the monthly billing for water usage, whichever is greater, will be levied until District is advised in writing to close out the account.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4I  
EFFECTIVE JANUARY 1, 2015

**BI-MONTHLY OFF RATE CHARGES, TREATED WATER SYSTEM**

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4EI & 4FI RESIDENTIAL & COMMERCIAL - INSIDE DISTRICT

<u>RATE SCH</u>	<u>MTR SIZE</u>	<u>*OFF RATE</u>
1	5/8"	\$ 31.27
2	3/4"	46.91
3	1"	78.17
4	1 1/2"	156.35
5	2"	250.16
6	3"	469.05
7	4"	781.76
8	6"	1,563.51
9	8"	2,501.62

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4EO & 4FO RESIDENTIAL & COMMERCIAL – OUTSIDE DISTRICT

1	5/8"	39.08
2	3/4"	58.64
3	1"	103.28
4	1 1/2"	195.44
5	2"	312.71
6	3"	586.31
7	4"	977.20
8	6"	1,954.39
9	8"	3,127.02
4-G	1"	31.27*
5-FO	all sizes	3.56

\*plus usage



SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-B  
EFFECTIVE JANUARY 1, 2015

**RAW WATER SERVICE OUTLET INSTALLATION**

All raw water service connections will be made after proper application and payment is made to the District in accordance with the attached schedule for the requested service.

**CANAL SERVICE BOX**

<u>Service Range</u>	<u>Basic Installation charge*</u>	<u>Excess Pipe Length Charge* (Per Foot)</u>	
1/2 to 25 miners inches	\$ 1,119.00	2 Inch	\$ 5.40
<i>Relocation or upsize cost</i>	<i>690.00</i>	3 Inch	6.20
26 to 40 miners inches**	1,850.00	4 Inch	6.80
<i>Relocation cost</i>	<i>1,051.00</i>	6 Inch	9.70
Over 40 miners inches	Actual Cost	8 Inch	17.50

\*Where the outlet on a canal service exceeds 20 feet in length, the applicant is charged at the indicated rate per foot for all excess footage in addition to the basic installation charge.

\*\*The District reserves the right to utilize a different type of measuring device on these size services at a cost to be determined by the District.

**ORIFICED SERVICE IN RAW WATER PIPELINE OR MANIFOLD**

<u>Service Range</u>	<u>Basic Installation Charge*</u>
Amount of water available will depend on manifold pressure, using 2 inch meter flanges or Dole flow control and 2 inch gate valves and air release.	\$1,036.00
Any service requiring pipe size over 2"	Actual Cost

\*In those instances where the District determines that a screening device is needed in the orificed service to prevent excessive clogging, such screening device shall be the sole cost of the customer (District Regulation 5.04.02 b).

**NOTE**

All raw water service connections for outside District lands are subject to additional charges per District Regulation 6.08.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-C  
EFFECTIVE JANUARY 1, 2010

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**RAW WATER SERVICE OUTLET PERIODIC CHARGES**

---

ACTIVE ACCOUNT (With Purchase of Water) - \$48.00 per year charge for each outlet in excess of one.

ACCOUNT CHARGE (Without Purchase of Water) - \$72.00 annual charge on all inactive raw water accounts, plus a \$66.00 annual charge for each additional outlet.

ROTATION - \$102.45 per season per outlet.

**NOTE**

Add 25% to all charges above for accounts serving lands outside the District (Amount rounded to the nearest dollar.)

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-D  
EFFECTIVE JANUARY 1, 2015

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**ANNUAL RAW WATER SERVICE, INSIDE DISTRICT**

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Charges for raw (untreated) water sold for irrigation use on an annual basis and billed bimonthly.

MINERS INCHES:	1/4	1/2	1	1½	2	5
BIMONTHLY RATE:	174.57	196.98	216.91	236.83	256.76	600.47

**NOTE**

Water served pursuant to this schedule is untreated; which, if consumed or used for culinary purposes, could cause serious illness. If the water is so used, it is used at the customer's own risk.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-F  
EFFECTIVE JANUARY 1, 2015

**ANNUAL RAW WATER SERVICE, OUTSIDE DISTRICT  
SMARTSVILLE ONLY**

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Charges for raw (untreated) water sold for irrigation use through a metered connection.

SERVICE SIZE:	5/8	3/4	1	1½	2	3	4
MINIMUM BI-MONTHLY RATE:	3.56	3.56	3.56	3.56	3.56	3.56	3.56

USAGE RATES:      \$1.57 per hundred cubic feet (hcf) per billing period

**NOTE**

Water served pursuant to this schedule is untreated; which, if consumed or used for culinary purposes, could cause serious illness. If the water is so used, it is used at the customer's own risk.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-G  
EFFECTIVE JANUARY 1, 2015

**INSIDE DISTRICT SEASONAL IRRIGATION WATER**

---

SUMMER SERVICE

\$405.73 fixed +  
\$239.10 per MI

WINTER SERVICE

\$507.17 fixed +  
\$298.88 per MI

- Summer service to begin on or about April 15 through October 14
- Winter service to begin on or about October 15 through April 14
- Winter service will be charged at 1.25 times the summer service rate.
- Raw water outlet service outlet periodic charges:
  - Active account (with purchase of water: \$48.00 per year charge for each outlet in excess of one
  - Account charge (without purchase of water): \$72.00 annual charge on all inactive raw water accounts, plus an additional \$72.00 charge for each additional outlet
  - Rotation: \$102.45 per season, per outlet

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-H  
EFFECTIVE JANUARY 1, 2015

**OUTSIDE DISTRICT SURPLUS IRRIGATION WATER**

---

SUMMER SERVICE

\$507.17 fixed +  
\$298.88 per MI

WINTER SERVICE

\$633.95 fixed +  
\$373.60 per MI

- Summer service to begin on or about April 15 through October 14
- Winter service to begin on or about October 15 through April 14
- Winter service will be charged at 1.25 times the summer service rate.
- Raw water outlet service outlet periodic charges:
  - Active account (with purchase of water: \$60.00 per year charge for each outlet in excess of one
  - Account charge (without purchase of water): \$90.00 annual charge on all inactive raw water accounts, plus an additional \$90.00 charge for each additional outlet

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-I  
EFFECTIVE JANUARY 1, 2015

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**DEMAND WATER**

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When available, Demand Irrigation Water may be purchased at rates equal to the following factors, times the normal Irrigation Water rate:

<b>DEMAND</b> (in days)	10	20	30	40	50	60	70	80	90	100
<b>RATE FACTOR</b>	.20	.35	.50	.65	.75	.80	.85	.90	.95	1.00

Minimum Charge: \$225.69 (.35 x 1 M.I. summer seasonal irrigation water rate)

Duration must be established upon application. All charges for demand service will be collected in advance of the start of delivery.

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SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-J  
EFFECTIVE JANUARY 1, 2015

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**FALL/STOCK WATER**

---

AVAILABILITY: October 15 to December 1 to regular irrigation water customers in quantities up to the amount of the seasonal purchase

**RATE:** \$1.53 Per M.I. day (10 M.I. seasonal rate divided by 1830 M.I.D.)

**MINIMUM CHARGE:** \$225.69 (.35 X 1 M.I. Summer Seasonal Irrigation Water Rate)

All charges for fall/stock water service will be collected in advance of delivery.

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SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-K  
EFFECTIVE JANUARY 1, 2015

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**RAW INTERMITTENT FLOW IRRIGATION WATER**

---

SEASON: April 15 to October 14  
MINIMUM SALE: \$141.30

RATE per acre foot season: \$21.09  
Outside District shall be 1.25% higher

**Definition:** Water belonging to District which cannot be supplemented by an auxiliary supply and in District's opinion cannot be considered a firm supply.

**Determining Water Use:** Sales of return intermittent flow irrigation water utilized by property owners shall be established in acre feet by District through pump ratings, sprinkler flow, actual diversions, acreage irrigated or any combination of the above methods as may be deemed appropriate to determine the amount of water to be used.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-L  
EFFECTIVE JANUARY 1, 2014

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**ENERGY PUMPING COST – MAGNOLIA #3**

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Energy Pumping Cost for irrigation (raw) water served from Magnolia #3 Pump System

Cost per M.I. per season: \$288.88

Bimonthly cost for customers on continuous service:

MINERS INCHES:	1/4	1/2	1	1½	2
BI-MONTHLY RATE:	24.08	48.15	72.22	96.29	120.37

Charge will be adjusted, after the end of irrigation season, based on actual water pumped by the District and current year pumping costs.

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SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-M  
EFFECTIVE JANUARY 1, 2014

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**ENERGY PUMPING COST – EDGEWOOD**

---

Energy Pumping Cost for irrigation (raw) water served from Edgewood Pumped System

Cost per M.I. per season: \$70.66

Bi-monthly cost for customers on continuous service:

MINERS INCHES:	1/4	1/2	1	1½	2
BI-MONTHLY RATE:	5.90	11.79	17.69	23.58	29.47

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-R  
EFFECTIVE JANUARY 1, 2015

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**MUNICIPAL WATER RATES**

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**INSIDE DISTRICT**

Treated Water: \$483.52 per acre foot

Raw Water:

Placer

\$210.89 per acre foot  
Plus \$405.73 fixed fee

**OUTSIDE DISTRICT**

Treated Water:

City of Grass Valley (Alta Hill)

\$604.40 per acre foot

City of Grass Valley @ Broadview Heights  
6" Meter with Double Check Valve

\$1,347.93 min per month  
Plus \$604.40 per acre foot

Raw Water

\$263.62 per acre foot

City of Grass Valley  
City of Nevada City

Plus \$507.16 fixed fee  
Plus \$507.16 fixed fee



SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 6-A  
EFFECTIVE See below

**MISCELLANEOUS CHARGES  
RENDERING AND PAYMENT OF BILLS**

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Duplicate of Water Statement (per billing)	\$ 2.00 (eff 9/26/84)
Turn off Notification Fee (Inside District)	10.00 (eff 9/26/84)
Turn off Notification Fee (Outside District)	12.50 (eff 9/26/84)
Outside District Security Deposit	50.00 (eff 9/26/84)
Commercial Acct Security Deposit	100.00 (eff 1/01/87)
Return Check Fee	20.00 (eff 1/01/98)
Public Utility Easement Abandonment	50.00 (eff 1/01/93)
Water Availability Letter	50.00 (eff 1/01/94)
Variance Request	175.00 (eff 1/01/94)
Encroachment Permit - County	190.00 (eff 7/01/07)
State	0.00 (eff 1/01/12)*

\*Need permit only. NID is local agency and exempt from fees

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SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 7-A  
EFFECTIVE JANUARY 1, 1998

**SPECIAL SERVICE CALL**

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Special Service Call fee inside District:	\$ 40.00
Special Service Call fee after normal working hours:	\$ 100.00 (1/1/02)
Special Service Call fee outside District:	\$ 50.00
Special Service Call fee after normal working hours	
Outside District:	\$125.00 (1/1/02)

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 8-A  
EFFECTIVE JANUARY 1, 2015

**PUBLIC FIRE HYDRANTS ON TREATED WATER SYSTEMS**

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HYDRANT INSTALLATION (1)	
Concurrently with New Construction	\$6,147.00 (2)
Installed on Existing Main	8,462.00 (2)
Plus lateral charge for each foot in excess of 10 feet	51.00
HYDRANT REMOVAL AND DISCONTINUANCE OF SERVICE	1,356.00
SALVAGE CREDIT ON FIRE HYDRANT RELOCATION	402.00

- (1) Any condition which in the opinion of the District will result in an estimated installation cost of more than twenty-five percent above those charges shown in this schedule will be installed on an actual cost basis. Example conditions include connections to a water main larger than 8 inch, connection to a main located deeper than 5 feet below surface, installation in concrete, pavement, or rock.
- (2) The District will add to the basic hydrant installation fee any estimated costs related to encroachment permits including associated inspection charges as well as those costs related to any required right of ways.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 8-B  
EFFECTIVE JANUARY 1, 2015

**PRIVATE FIRE SERVICE – INSTALLATION CHARGES 1/**

The District will estimate all installation costs not associated with the vault and add this amount to the vault costs indicated below. The final cost to the applicant will be the summation of these two installation costs.

**VAULT INSTALLATION 2/**

SIZE	DETECTOR CHECK	DOUBLE DETECTOR CHECK
-----	-----	-----
2"	\$ N/A	\$ N/A
3"	N/A	12,017.00
4"	10,698.00	13,171.00
6"	11,047.00	14,428.00
8"	12,177.00	19,507.00
10"		23,179.00

- 1/ Vault installation includes all piping and appurtenances located within the vault, as well as the meter box.

Any condition which, in the opinion of the District, will result in an estimated vault installation cost of more than twenty five percent above those charges shown in this schedule will be installed on an estimated cost basis.

Installations requiring a road boring and jacking will be completed on a time and material basis. A deposit, based on the District's anticipated maximum cost will be due from the applicant prior to installation. The final cost to the applicant will not exceed the deposit.

- 2/ A detector check is installed unless backflow protection is required, as discussed in Section 9 of the Regulations. A double detector check is installed where backflow protection is needed.

The District will add to the basic vault installation fee any estimated costs related to encroachment permits including associated inspection charges as well as those related to any required right of ways.

**NOTE:**

A \$100.00 fee will be collected at the time an application for a private fire service is submitted to the District. This fee will compensate the District for time spent in estimating the installation cost. The fee will be waived if applicant, pursuant to section 8.05.02 of these Regulations, utilizes a private contractor to install the service and does not request an estimate.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 8-C  
EFFECTIVE JANUARY 1, 2015

**PRIVATE FIRE SERVICE - BI-MONTHLY CHARGES**

<u>SIZE</u>	<u>DETECTOR CHECK 1/</u>	
1"	\$ 5.80	
2"	-	Usage is charged at double the prevailing 4EI rate schedule
3"	-	
4"	34.00	
6"	36.20	
8"	40.10	

1/ These charges will also apply to all private services which are substandard.

NOTE: Add 25% to all charges above for accounts serving lands outside the District.

SCHEDULE OF RATE AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 8-D  
EFFECTIVE JANUARY 1, 2015

**PRIVATE FIRE SERVICE - BI-MONTHLY CHARGES**

<u>SIZE</u>	<u>DOUBLE DETECTOR CHECK</u>	
2"	\$ 39.90	Usage is charged at double the prevailing 4EI rate schedule
3"	42.90	
4"	44.00	
6"	51.10	
8"	77.90	
10"	101.40	

NOTE: Add 25% to all charges above for accounts serving lands outside the District.

SCHEDULE OF RATE AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-A  
EFFECTIVE: JANUARY 1, 2006

### **BACKFLOW PREVENTION REQUIREMENTS**

Minimum requirements for backflow prevention devices for various types of potable water users are listed below. These requirements have been determined based on District and industry-wide experience of the probability of backflow occurring, taking into consideration such factors as the degree of hazard and complexity of piping associated with various types of District water customers.

The District reserves the right to install a more stringent device than listed if, in its sole judgement, the particular circumstances of that water user requires a higher degree of backflow protection. All meters serving the same parcel will be subject to the highest degree of backflow protection appropriate for that parcel. The District will determine the need for and the type of device for all classes of services not listed below.

#### Requirements Abbreviations

AG - Air gap separation  
RP - Reduced pressure principle device  
DC - Double check valve assembly  
DCD - Double check detector assembly

#### WATER USE

#### REQUIREMENTS

1.	Aircraft and missile plants	RP
2.	Automotive plants	RP
3.	Beauty Salons	DC
4.	Board and care facilities, skilled nursing facilities	DC
5.	Bottling plants	DC
6.	Breweries	DC
7.	Buildings – commercial/industrial multi-story over 50' in elevation above street level to ground floor	DC
8.	Canneries, packing houses, and reductions plants	RP
9.	Car wash	RP
10.	Chemical processing or storage facilities	RP
11.	Chemical treated potable water system	DC
12.	Dairies and cold storage plants	DC
13.	Dye works	RP
14.	Film processing laboratories	RP
15.	Fire systems – Class 3, 4, and 6, as defined in California Department of Health Services Manual of Cross Connection Control	DCD
16.	Fire systems – Class 5	AG or RP
17.	Food processing plants	DC
18.	Fertilizer processing plants	RP
19.	Hospitals, sanitariums	RP
20.	Irrigation services served from treated water mains	DC
21.	Laboratories	RP

SCHEDULE OF RATE AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-A  
EFFECTIVE: JANUARY 1, 2006

**BACKFLOW PREVENTION REQUIREMENTS (continued)**

<u>WATER USE</u>	<u>REQUIREMENTS</u>
22. Laundries, commercial	DC
23. Medical/dental buildings, clinics or veterinary clinics	RP
24. Metal manufacturing, cleaning, processing and fabricating plants	RP
25. Mobile home parks	DC
26. Mortuaries, morgues, or autopsy facilities	RP
27. Oil and gas production, storage or transmission properties	RP
28. Paper products manufacturing plants	RP
29. Plating operations	RP
30. Premises with piped auxiliary water supplies	DC
31. Pumped sewage, sewage pumping station and/or treatment plants. (Excluding individual premises)	RP
32. Radio active materials or substances	RP
33. Restricted classified or closed facilities	RP
34. Restaurants with automatic dishwashers or steam tables	DC
35. Sand, gravel, cement and ready mix plants	DC
36. Secondary schools and colleges	DC
37. Tank or Construction Water	AG or RP*
(*Customer maintained & certified; District inspected)	

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-B  
EFFECTIVE JANUARY 1, 2015

**BACKFLOW PREVENTION DEVICE - INSTALLATION CHARGES**

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<u>ASSEMBLY SIZE</u>	<u>DCV 1/</u>	<u>RP 2/</u>
3/4"	\$ 623.00	\$ 1,061.00
1"	629.00	1,186.00
1 1/2"	1,001.00	1,938.00
2"	1,037.00	2,481.00
3"	3,789.00	8,233.00
4"	10,640.00	10,470.00
6"	13,889.00	14,354.00
8"	20,057.00	18,131.00
10" And up	Actual cost	Actual cost

1/ Double Check Valve Assembly

2/ Reduced Pressure Principle Device

Note: Charges covering double detector checks which are utilized on high risk private fire services can be found in Schedule 8-B.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-C  
EFFECTIVE JANUARY 1, 2015

**BACKFLOW PREVENTION DEVICE – BI-MONTHLY CHARGE**

<u>ASSEMBLY SIZE</u>	<u>INSIDE DISTRICT DCV 1/</u>	<u>OUTSIDE DISTRICT DCV 1/</u>
3/4"	\$ 12.90	\$ 16.10
1"	13.20	16.50
1 1/2"	14.20	17.80
2"	14.70	18.40
3"	41.50	51.90
4"	48.40	60.50
6"	76.30	95.40
8" and up	98.50	123.10

1/ Double check valve assembly

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-D  
EFFECTIVE JANUARY 1, 2015

**BACKFLOW PREVENTION DEVICE - BI-MONTHLY CHARGE**

<u>ASSEMBLY SIZE</u>	<u>INSIDE DISTRICT RP 1/</u>	<u>OUTSIDE DISTRICT RP 1/</u>
3/4"	\$ 14.70	18.40
1"	16.70	20.90
1 1/2"	22.20	27.80
2"	22.40	28.00
3"	47.30	59.10
4"	52.80	66.00
6"	72.00	90.00
8" and up	110.90	138.60

1/ Reduced pressure principle device



SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 10-A  
EFFECTIVE JANUARY 1, 2015

**DISTRICT CONSTRUCTED MAINLINE EXTENSIONS**

The District will estimate all costs not included in the basic charge 1/ listed below and add this to the basic charge. The final cost to the applicant will be the summation of these two installation costs, however, unexpected costs associated with required right of ways or encroachment permits will be added to the total.4/

BASIC CHARGE 2/

SIZE	COST/FOOT	ADD ON FOR SHORT LENGTHS 3/
6"	\$ 94.30	\$26.80
8"	120.70	26.80
10"	150.80	26.80
12"	181.10	26.80

- 1/ Any condition which, in the opinion of the District, will result in an estimated costs of more than twenty-five percent of those charges shown in this Schedule, will be installed on an estimated cost basis. Pipe sizes in excess of twelve inches will be accomplished on an estimated cost basis.
- 2/ The basic charge includes all necessary pipe, air and vacuum valves, blowoffs, thrust block and engineering work. Not included in the basic charge are mainline valves, service settings, existing pipe tie-in, fire hydrant assemblies, right of way and all other items not specifically mentioned as covered under the basic charge.
- 3/ If total length of installation is less than 100 feet, add indicated amounts on to per-foot-costs; however, the cost as so determined will not exceed the cost of a 100-foot extension.
- 4/ The District will determine, prior to start of construction, if adequate funds have been provided in the estimated cost to cover right of way purchases, associated legal and court fees, as well as to cover requirements mandated in any encroachment permits the District must obtain from other public entities for the mainline extension. The developer will be required to pay any of these additional costs prior to start of construction.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 10-B  
EFFECTIVE JANUARY 1, 2015

**TREATED WATER DISTRIBUTION MAIN CHARGES FOR CALCULATING  
TEMPORARY SERVICE LOCATION TREATED WATER MAIN CONTRIBUTIONS**

---

Multiplier

\$105.50

The Treated Water Distribution Main (TWDM) Charge as shown herein will be determined by the District and revised or amended periodically to reflect updated estimates for the cost to provide and install distribution pipelines.

The administrative processing fee for the Temporary Service Location application shall be \$175.00.

The processing fee for the renewal of an Approved Temporary Service Location shall be \$90.00.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 12-A  
EFFECTIVE SEPTEMBER 26, 1984

**PENALTIES FOR  
UNAUTHORIZED TAKING OF WATER**

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<u>OFFENSE</u>	<u>PENALTY</u>
FIRST	\$250.00
SECOND	\$500.00



## WATER SERVICE REGULATIONS

# FORMS

- [Form 4A](#) – Request for New Treated Water Service
- [Form 4B](#) – Request for Transfer of Domestic Water Service – Information Route Sheet
- [Form 4C](#) – Treated Water Service Request
- [Form 4D](#) – Application for Tank or Construction Water
- [Form 4E](#) – Non-Beneficial Use Inside the District
- [Form 4E](#) – Non-Beneficial Use Commercial Inside District
- [Form 4E](#) – Non-Beneficial Use Outside the District
- [Form 5A](#) – Raw Water Service – Information Route Sheet
- [Form 5B](#) – Application for Inside District Agriculture Irrigation Water Service
- [Form 5C](#) – Application for Continuous Agricultural Irrigation Water Service from
- [Form 5D](#) – Application for Intermittent Flow Agriculture Irrigation Water Service
- [Form 5E](#) – 2000 Outside District Surplus Raw Water Agreement
- [Form 5F](#) – Account/Outlet Box Deletion Request
- [Form 5G](#) – To Provide Water Service From a Private Conduit
- [Form 7A](#) – Turn On / Turn Off Request
- [Form 8A](#) – Application for Public Fire Hydrant
- [Form 8B](#) – Application for Private Fire Service
- [Form 8C](#) – Application for Raw Water Fire Service
- [Form 10A](#) – Conveyance Agreement, Master
- [Form 10B](#) – Variance Request
- [Form 14A](#) – Encroachment Construction Authorization
- [Form 14B](#) – Encroachment Permit
- [Form 14C](#) – Dock Encroachment Permit Application
- [Form 14D](#) – Dock Encroachment Permit



## NEVADA IRRIGATION DISTRICT

### REQUEST FOR NEW TREATED WATER SERVICE

This is an information route sheet. It is not your application and no money will be accepted until the application is signed and returned to the office. This form is void 90 days from date of issue unless service application is processed during that period. Please complete the following information.

Date: \_\_\_\_\_

Owner's Name \_\_\_\_\_ Phone \_\_\_\_\_

Mailing Address \_\_\_\_\_

Contractor/Representative \_\_\_\_\_ Phone \_\_\_\_\_

Mailing Address \_\_\_\_\_

APPLICATION MUST BE SIGNED BY OWNER. Mail \_\_\_\_\_ Call when ready \_\_\_\_\_

Parcel Number \_\_\_\_\_ County: ☐ Nevada ☐ Placer

Subdivision \_\_\_\_\_ Lot: \_\_\_\_\_ Unit: \_\_\_\_\_

Property Address \_\_\_\_\_ Improvement District: \_\_\_\_\_

Service Size Requested: ☐ 5/8 Inch ☐ 3/4 Inch ☐ Other-specify \_\_\_\_\_  
☐ Relocation ☐ Installed with Fire Service-Size \_\_\_\_\_

**(PLEASE ATTACH FORM 8-B)**

Type of Service Requested:

- |                          |                       |
|--------------------------|-----------------------|
| a) Residential           | Number of units _____ |
| b) Commercial/Industrial | Number of units _____ |
| c) Name of business      | _____                 |
| d) Type of service       | _____                 |
| e) Other-specify         | _____                 |

Will there be material dangerous to health or toxic substances used on property? ☐ Yes ☐ No  
If yes, type of substance(s) \_\_\_\_\_

Does an auxiliary water supply exist? ☐ Yes ☐ No

If yes, indicate type: ☐ Well ☐ Spring ☐ Ditch ☐ Other \_\_\_\_\_  
Will you keep your auxiliary water supply? ☐ Yes ☐ No Which one? \_\_\_\_\_

How are property corners fronting the pipeline identified? \_\_\_\_\_

These corners must be clearly marked and visible from the street to insure correct placement of meter. Route sheet cannot be processed unless corners are identified.

If Commercial:

Will there be a multi-story building on property? ☐ Yes ☐ No

*We certify that the foregoing statements are true and correct and that no changes will be made in the use of the described property until the Nevada Irrigation District has been notified. I understand that if changes are made which require a modification of the service connection, the District has the right to discontinue service until the modification of the service connection has been made.*

Signature of Authorized Representative \_\_\_\_\_

Signature of Property Owner \_\_\_\_\_ Date \_\_\_\_\_

Note: Owner's signature required on route sheet. All information must be completed prior to processing.

Unless otherwise requested, all services will be installed at the on-rate.



**FOR DISTRICT USE ONLY****CUSTOMER SERVICE DEPARTMENT**Is property fronted by a District Main? ☐ Yes ☐ No

If yes, system name \_\_\_\_\_

Size \_\_\_\_\_ Type \_\_\_\_\_

If no, has a variance been granted? ☐ Yes ☐ No

Date granted \_\_\_\_\_

County encroachment permit needed? ☐ Yes ☐ No

METER SIZE \_\_\_\_\_

FACILITY NO \_\_\_\_\_

ROUTE NO \_\_\_\_\_

BOOK NO \_\_\_\_\_

INFO BY \_\_\_\_\_

Water pressure at District Service point (approximate psi) \_\_\_\_\_

(Determine actual psi in field if approximate psi is less than 25 psi)

Location of service point:

Field checked ☐Predetermined ☐

Field checked by \_\_\_\_\_ Date \_\_\_\_\_

**OPERATIONS DEPARTMENT**Backflow prevention device needed? ☐ Yes ☐ No

Type of device \_\_\_\_\_ Size \_\_\_\_\_ Model \_\_\_\_\_

Reason \_\_\_\_\_

By \_\_\_\_\_ Date \_\_\_\_\_

Is property covered under the Railroad Commission Policy?

☐ Yes☐ No**RIGHT-OF-WAY DEPARTMENT**

Will right of way be needed from water main to meter location?

☐ Yes☐ No

If yes, remarks \_\_\_\_\_

Applicant notified of right-of-way problem? ☐ Yes ☐ No

By: \_\_\_\_\_ Date: \_\_\_\_\_

**CUSTOMER SERVICE DEPARTMENT**

Connection fees \$ \_\_\_\_\_

Backflow Fee \$ \_\_\_\_\_

Standby fee/factor \$ \_\_\_\_\_

Other \$ \_\_\_\_\_

Fire Service Fees \$ \_\_\_\_\_

(standby factor) \_\_\_\_\_ to \_\_\_\_\_

Application mailed by \_\_\_\_\_

Standby account number \_\_\_\_\_

Reimbursement agreement ☐ Yes ☐ No

Improvement District \_\_\_\_\_

Inside District ☐ Yes ☐ No Tax Area Code \_\_\_\_\_**TOTAL COSTS DUE \$** \_\_\_\_\_

\_\_\_\_\_

Date \_\_\_\_\_

**MAINTENANCE DEPARTMENT**

Size \_\_\_\_\_ Meter Serial # \_\_\_\_\_ Backflow Device # \_\_\_\_\_

METER CORP. STOP ON ☐ OFF ☐

Installed by \_\_\_\_\_ Date \_\_\_\_\_ Meter reading \_\_\_\_\_

When service is installed, return to: 1) Operations 2) Customer Service



## NEVADA IRRIGATION DISTRICT

REQUEST FOR TRANSFER OF DOMESTIC WATER SERVICE  
INFORMATION ROUTE SHEET

DATE: July 27, 2015

NAME (Owner):

PHONE: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

ACCOUNT

METER SIZE: 5/8

NUMBER:

PARCEL

NO.:

SUBDIVISION

LOT

UNIT

PROPERTY GENERAL LOCATION – Street

Address

EXISTING BACKFLOW PREVENTION DEVICE ..... YES ☐ NO ☐☐ SERVICE ON "OFF RATE" - Signed application & route sheet still required.

PLEASE VERIFY, AND CORRECT IF NECESSARY, THE ABOVE INFORMATION

**PLEASE FILL IN THE FOLLOWING INFORMATION:**

TYPE OF SERVICE:

(a) Residential

Number of Units \_\_\_\_\_

(b) Commercial/Industrial

Number of Units \_\_\_\_\_

(c) Other

Specify \_\_\_\_\_

**Will there be any chemicals, toxins or material dangerous to health used on the property?**

YES \_\_\_\_\_ NO \_\_\_\_\_ If yes, type of chemicals \_\_\_\_\_

**Will there be, or does an auxiliary water supply exist?**

YES \_\_\_\_\_ NO \_\_\_\_\_

Well \_\_\_\_\_ Spring \_\_\_\_\_ Ditch \_\_\_\_\_ Surface \_\_\_\_\_ Other \_\_\_\_\_

**Will there be any substance handled under pressure on the property?** YES \_\_\_\_\_ NO \_\_\_\_\_

If yes, explain (i.e.: pumped sewage, steam cleaner, hydromatic pump, etc) \_\_\_\_\_

**If Commercial/Industrial:** Type of business \_\_\_\_\_

Name of business \_\_\_\_\_

Is there a multi-story building on property? YES \_\_\_\_\_ NO \_\_\_\_\_

The approximate P.S.I. at the service location is:

I acknowledge the above and certify that the foregoing statements are true and correct and that no changes will be made in the use of the described property until Nevada Irrigation District has been notified. I understand that if changes are made in the use of the property which require modification of the service connection, the District has the right to discontinue service until the modification of the service connection has been made.

SIGNATURE OF OWNER/APPLICANT \_\_\_\_\_ DATE \_\_\_\_\_

PLEASE SUBMIT WITH APPLICATION



## NEVADA IRRIGATION DISTRICT

REQUEST FOR TRANSFER OF DOMESTIC WATER SERVICE  
INFORMATION ROUTE SHEET

DATE: July 27, 2015

NAME (Owner):

PHONE: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

ACCOUNT

METER SIZE: 5/8

NUMBER:

PARCEL

NO.:

SUBDIVISION

LOT

UNIT

PROPERTY GENERAL LOCATION – Street

Address

EXISTING BACKFLOW PREVENTION DEVICE ..... YES ☐ NO ☐☐ SERVICE ON "OFF RATE" - Signed application & route sheet still required.

PLEASE VERIFY, AND CORRECT IF NECESSARY, THE ABOVE INFORMATION

**PLEASE FILL IN THE FOLLOWING INFORMATION:**

TYPE OF SERVICE:

(a) Residential

Number of Units \_\_\_\_\_

(b) Commercial/Industrial

Number of Units \_\_\_\_\_

(c) Other

Specify \_\_\_\_\_

**Will there be any chemicals, toxins or material dangerous to health used on the property?**

YES \_\_\_\_\_ NO \_\_\_\_\_ If yes, type of chemicals \_\_\_\_\_

**Will there be, or does an auxiliary water supply exist?**

YES \_\_\_\_\_ NO \_\_\_\_\_

Well \_\_\_\_\_ Spring \_\_\_\_\_ Ditch \_\_\_\_\_ Surface \_\_\_\_\_ Other \_\_\_\_\_

**Will there be any substance handled under pressure on the property?** YES \_\_\_\_\_ NO \_\_\_\_\_

If yes, explain (i.e.: pumped sewage, steam cleaner, hydromatic pump, etc) \_\_\_\_\_

**If Commercial/Industrial:** Type of business \_\_\_\_\_

Name of business \_\_\_\_\_

Is there a multi-story building on property? YES \_\_\_\_\_ NO \_\_\_\_\_

**It is understood that service provided under this application is in a high pressure water area. For your protection be sure an adequately sized pressure relief valve is installed on your service. For further information, check your local plumbing code.****Approximate P.S.I.:**

I acknowledge the above and certify that the foregoing statements are true and correct and that no changes will be made in the use of the described property until Nevada Irrigation District has been notified. I understand that if changes are made in the use of the property which require modification of the service connection, the District has the right to discontinue service until the modification of the service connection has been made.

SIGNATURE OF OWNER/APPLICANT \_\_\_\_\_ DATE \_\_\_\_\_

PLEASE SUBMIT WITH APPLICATION



## NEVADA IRRIGATION DISTRICT

REQUEST FOR TRANSFER OF DOMESTIC WATER SERVICE  
INFORMATION ROUTE SHEET

DATE: July 27, 2015

NAME (Owner):

PHONE: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

ACCOUNT

METER SIZE: 5/8

NUMBER:

PARCEL

NO.:

SUBDIVISION

LOT

UNIT

PROPERTY GENERAL LOCATION – Street

Address

EXISTING BACKFLOW PREVENTION DEVICE ..... YES ☐ NO ☐☐ SERVICE ON "OFF RATE" - Signed application & route sheet still required.

PLEASE VERIFY, AND CORRECT IF NECESSARY, THE ABOVE INFORMATION

**PLEASE FILL IN THE FOLLOWING INFORMATION:**

TYPE OF SERVICE:

(a) Residential

Number of Units \_\_\_\_\_

(b) Commercial/Industrial

Number of Units \_\_\_\_\_

(c) Other

Specify \_\_\_\_\_

**Will there be any chemicals, toxins or material dangerous to health used on the property?**

YES \_\_\_\_\_ NO \_\_\_\_\_ If yes, type of chemicals \_\_\_\_\_

**Will there be, or does an auxiliary water supply exist?**

YES \_\_\_\_\_ NO \_\_\_\_\_

Well \_\_\_\_\_ Spring \_\_\_\_\_ Ditch \_\_\_\_\_ Surface \_\_\_\_\_ Other \_\_\_\_\_

**Will there be any substance handled under pressure on the property?** YES \_\_\_\_\_ NO \_\_\_\_\_

If yes, explain (i.e.: pumped sewage, steam cleaner, hydromatic pump, etc) \_\_\_\_\_

**If Commercial/Industrial:** Type of business \_\_\_\_\_

Name of business \_\_\_\_\_

Is there a multi-story building on property? YES \_\_\_\_\_ NO \_\_\_\_\_

**It is understood that service provided under this application is in a low pressure water area and applicant is responsible to provide any increase in pressure, if required. Approximate P.S.I.:**

I acknowledge the above and certify that the foregoing statements are true and correct and that no changes will be made in the use of the described property until Nevada Irrigation District has been notified. I understand that if changes are made in the use of the property which require modification of the service connection, the District has the right to discontinue service until the modification of the service connection has been made.

SIGNATURE OF OWNER/APPLICANT \_\_\_\_\_ DATE \_\_\_\_\_

PLEASE SUBMIT WITH APPLICATION





NEVADA IRRIGATION DISTRICT

1036 W MAIN STREET  
GRASS VALLEY, CA 95945  
(530) 273-6185 FROM AUBURN 878-1857

ORIGINAL RETURN TO NID WITH REMITTANCE

CYCLE	ACCOUNT NUMBER	DATE

☐ NEW SERVICE   ☐ TURN ON   ☐ PSI  
☐ TRANSFER   ☐ METER RELOCATION   ☐ SERVICE SIZE  
☐ CHANGE OF SERVICE AREA   ☐ DCV/RP  
☐ OFF RATE   ☐ NAME CHANGE ONLY

PROPERTY OWNER \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DELIVERY FROM \_\_\_\_\_  
LOT \_\_\_\_\_ UNIT \_\_\_\_\_ SUBD. \_\_\_\_\_  
PARCEL \_\_\_\_\_

SERVICE ADDRESS \_\_\_\_\_  
ROUTE NO. \_\_\_\_\_ BOOK AND PAGE \_\_\_\_\_

EFFECTIVE DATE \_\_\_\_\_  
FORMER CONSUMER \_\_\_\_\_  
SERVICE CONNECTION FEE \$ \_\_\_\_\_  
DCV/RP FEE \$ \_\_\_\_\_  
OTHER \_\_\_\_\_

☐ NONCOMMERCIAL   ☐ COMMERCIAL

CYCLE	ACCOUNT NUMBER

☐ NEW SERVICE   ☐ METER RELOCATION   ☐ APPROXIMATE   ☐ #PSI  
☐ TRANSFER   ☐ CHANGE OF SERVICE SIZE   ☐ SERVICE SIZE  
☐ TURN ON   ☐ DCV/RP  
☐ NAME CHANGE ONLY

THE APPLICANT REQUESTS DISTRICT TO SUPPLY TREATED WATER AS INDICATED DATE

TO BE USED ON PROPERTY OWNED BY \_\_\_\_\_ EFFECTIVE DATE \_\_\_\_\_  
OWNER'S MAILING ADDRESS \_\_\_\_\_ FORMER CONSUMER: \_\_\_\_\_  
\_\_\_\_\_

LOT \_\_\_\_\_ UNIT \_\_\_\_\_ SUBDIVISION \_\_\_\_\_ ROUTE NUMBER \_\_\_\_\_  
DELIVERY FROM \_\_\_\_\_  
SERVICE ADDRESS \_\_\_\_\_ PARCEL NUMBER \_\_\_\_\_

Service of water to be in accordance with the conditions printed on the reverse of this application and with other rules and regulations of the District. Applicant agrees to pay for such services at the tolls and charges as established by the District from time to time and agrees to the conditions of this application. New service applications are void 90 days after issuance.

☐ NONCOMMERCIAL   ☐ COMMERCIAL   ☐ BOOK AND PAGE \_\_\_\_\_

Business Name \_\_\_\_\_ METER NUMBER \_\_\_\_\_

WATER RATE \_\_\_\_\_ OFF RATE \_\_\_\_\_ OWNER'S SIGNATURE X \_\_\_\_\_

SERVICE CONNECTION FEE \_\_\_\_\_ APPLICANT SIGNATURE X \_\_\_\_\_  
(COMMERCIAL ONLY)

DCV/RP FEE \_\_\_\_\_ NAME \_\_\_\_\_  
SECURITY DEPOSIT FEE \_\_\_\_\_ MAILING ADDRESS \_\_\_\_\_  
PAYMENT RECEIVED ON BILL \_\_\_\_\_  
OTHER \_\_\_\_\_  
TOTAL RECEIVED \_\_\_\_\_ NID BY: \_\_\_\_\_



## **CONDITIONS OF ACCEPTANCE OF WATER SERVICE**

1. Application for water services is made on the reverse side hereof under and subject to the Regulations, and rates, tools, charges, and fees adopted or to be adopted by the Board of Directors of Nevada Irrigation District. Applicant and/or owner hereby grants the right to Nevada Irrigation District to install, maintain, control and regulate all meters, measuring devices, delivery gates and valves in any conduit necessary for the distribution, measurement and control of water delivered under this application. The District, its officers or employees, shall not be liable for damages to persons or property occasioned through the exercise of such right, or for negligent, wasteful or other use of handling of water by the users thereof.
2. All valves and necessary fittings, including the meter and backflow prevention device, needed to serve the applicant water shall remain the property of Nevada Irrigation District.
3. The District expressly reserves the right to recapture, reuse, and resell all such water when it shall have passed from the premises of the applicant.
4. Water service is subject to shortages, fluctuation in flow, interruptions in service and pressure deficiencies, and anyone using such water assumes all such hazards and relieves the Nevada Irrigation District, its officers and employees, from liability or damages resulting therefrom. Applicant must provide all necessary Rights of Way and conduits to transport water from District's facility to applicant's land. Water delivered under this application shall not be used on property other than that covered by this application.
5. All charges for water service are a lien against the land, and if unpaid at the time specified for delivery of the assessment book to the collector, the amount of unpaid charges may be added to and become a part of the annual assessment levied upon the land upon which the water, for which the charges are unpaid, was used. Water Code Sec 25806.



TANK OR CONSTRUCTION WATER

ROUTE ACCOUNT NUMBER

CANAL WATER TREATED WATER

AUTHORIZED BY:

COMPANY NAME/INDIVIDUAL

TELEPHONE NUMBER ( )

TO BE USED IN VICINITY OF:

TANK SIZE(S)

METER NO.

VEHICLE LICENSE NUMBER(S)

RECEIVED \$

DATE

BY

Form 4-D

ACCOUNT NUMBER

APPLICATION FOR TANK  
OR CONSTRUCTION WATER

AUTHORIZED BY:

CANAL WATER

TREATED WATER

NEVADA IRRIGATION DISTRICT

1036 W. Main Street, Grass Valley, CA 95945

TELEPHONE (916) 273-6185  
AUBURN AREA 878-1857

ROUTE SERVICE WORKER DATE 19

DELIVERY TO BE MADE FROM

FOR YEAR 19 ONLY - OR  
PERIOD

TO BE USED BY

COMPANY NAME/INDIVIDUAL

IN VICINITY OF NEVADA COUNTY PLACER COUNTY

Service to be in accordance with rules and regulations of the District. Applicant agrees to pay for service at rates and charges as established by the District from time to time.

METER DEPOSIT FEE \$ METER NUMBER METER READING

APPLICATION CHARGE \$ TANK SIZE/GALLONS

Meter readings or tank tally sheets shall be turned into the N.I.D. Main Office at the first of each month. Failure to submit tally sheets by the 10th of the month will result in a billing for twice the minimum monthly rate. The minimum monthly charge of \$ or the monthly billing for water usage, whichever is greater, will be levied. The District will continue to bill until advised to close out the account. All accounts are closed at the end of the calendar year.

\$ RECEIVED BY

BILLING  
ADDRESS

SIGNATURE OF APPLICANT:

TELEPHONE NUMBER ( )

METER RETURN/TANK WATER CLOSE

METER AND WRENCH RETURNED METER READING END  
METER IN SERVICEABLE CONDITION YES NO IF NO, EXPLAIN DAMAGES

BY

FIRE HYDRANT AND DISTRICT FACILITIES IN SERVICEABLE CONDITION YES NO IF NO, EXPLAIN DAMAGES:

CHECKED BY

CLOSE ACCOUNT NUMBER EFFECTIVE DATE BY

COST OF DAMAGES \$ FINAL BILLING AMOUNT \$

REFUNDED AMOUNT \$ DATE BY

COMPANY NAME/INDIVIDUAL

COMMENTS:



## **CONDITION OF ACCEPTANCE OF WATER SERVICE**

1. Application for water is made on the reverse side, under and subject to the By-laws, Regulations, and rates of fees and charges adopted or to be adopted by the Board of Directors of Nevada Irrigation District. Applicant hereby grants the right to the Nevada Irrigation District to install, maintain, control, and regulate all meters, measuring devices, delivery gates and valves in any conduit necessary for the distribution, measurement and control of water delivered under this application. The District, its officers or employees, shall not be liable for damages to persons of property occasioned through the exercise of such right, or for the negligent, wasteful or other use or handling of water by the users.
2. Nevada Irrigation District does not hold itself liable to the applicant for failure to perform any of the obligations imposed upon it or assumed by it under this application if such failure shall be caused by inevitable accident, Act of God, fire, strikes, riot, war, shortage in seasonal water supply or any other cause beyond the reasonable control of the District.
3. Applicant shall:
  - a. Provide all necessary facilities to conduct water from existing conduit of District to the applicant's point of use.
  - b. Be solely responsible for any damage caused by water delivered under this agreement.
  - c. Handle water supplied by this agreement so there shall be no waste.
4. This contract shall not create or convey any right, title or interest, legal or equitable, in or to the property, ditches, water and water right of District nor interfere with or obstruct the full, free and unobstructed use and disposition of water by District; and District shall have full control of the distribution of water through its canal system, and the right to establish and enforce such regulation as it may deem expedient; and the furnishing of water hereunder shall not give rise by user or otherwise to any right to require water to be furnished to said lands, or any part thereof, or other lands, or become the basis of a permanent right.
5. District reserves the right to cancel any tank water application if the drafting of water interferes with its operation.
6. Billing under this schedule shall not create a credit for future delivery of water.
7. Application will automatically be terminated at end of calendar year.





July 27, 2015

«Title» «FirstName» «LastName»  
«Address1»  
«CSZ»

Re: «acctnum»

Dear «Title» «LastName»:

In response to your request regarding the increase in consumption, we have calculated a non-beneficial use credit in the amount of \$«credit\_amt» for a «Num\_of\_months» month period, that may be applied to account number «acctnum» at «prop\_addr».

The District's non-beneficial use credit can only be granted once each ten years. We will not be able to grant any further credits if another high billing should occur before the ten year period has passed.

If you decide to accept this adjustment, please sign and return the enclosed worksheet and we will apply a \$«credit\_amt» credit to your account. This will leave a \$«Bal\_after\_adj» «Complete\_sentence».

If you have any questions, please contact the undersigned.

Very truly yours,

[CAA Name]  
Customer Accounting Administrator

[CAA Initials]: «your\_inits»  
Enclosure

**NON-BENEFICIAL USE ADJUSTMENT-INSIDE DISTRICT**

July 27, 2015

«Title» «FirstName» «LastName»  
 «Address1»  
 «CSZ»

Parcel Number: «apn»  
 Account Number: «acctnum»

Current Billing for period:

\$«Curr\_bill\_amt»

	<u>HCF*</u>	<u>@</u>	<u>\$</u>
Current Usage	«curr_usage»	0.785	«curr_amt»
Normal Usage (Prior year)	«prior_usage»	0.785	«prior_amt»
Excess Usage @ production rate	«diff_in_usage»	0.280	«diff_amt»
Non-Beneficial Use Adjustment			<u>\$ («credit amt»)</u>
Adjusted billing			<u>\$ «adj_billing»</u>

\*HCF = hundred cubic feet

---

See section 4.10 of the District's Regulations Relating to Water service for policy.

Adjusted calculation is as follows:

- The normal usage for a comparable billing period subtracted from the total actual usage equals excess usage.
- The normal usage billed at the prevailing water rate plus the excess usage billed at the prevailing District's production rate for treated water is subtracted from the current charges. The resulting amount shall be the amount of adjustment granted.

**I AGREE TO ACCEPT THIS ADJUSTMENT AND UNDERSTAND NO FURTHER CREDIT WILL BE ALLOWED WITHIN TEN YEARS FROM THIS AGREEMENT.**

Customer's Signature \_\_\_\_\_ Date \_\_\_\_\_

Credit approved by: \_\_\_\_\_  
 Manager of Finance

Nevada Irrigation District  
 1036 W. Main Street  
 Grass Valley, CA 95945

(530) 273-6185  
 or 1-800-222-4102

**PLEASE RETURN TO CUSTOMER SERVICE**

July 27, 2015

«FirstName» «LastName»  
«Address1»  
«CSZ»

Re: «acctnum»

Dear «Title» «LastName»:

In response to your request in the increase in consumption, we have calculated a non-beneficial use credit in the amount of \$«credit\_amt» for a «Num\_of\_months» month period, that may be applied to account number «acctnum» at «prop\_addr».

The District's non-beneficial use credit can only be granted once each ten years. We will not be able to grant any further credits if another high billing should occur before the ten year period has passed.

If you decide to accept this adjustment, please sign and return the enclosed worksheet and we will apply a \$«credit\_amt» credit to your account. This will leave a balance of \$«Bal\_after\_adj» «Complete\_sentence».

If you have any questions, please contact the undersigned.

Very truly yours,

[CAA Name]  
Customer Accounting Administrator

[CAA Initials]: «your\_inits»  
Enclosure

**NON-BENEFICIAL USE ADJUSTMENT-COMMERCIAL INSIDE DISTRICT**

July 27, 2015

«FirstName» «LastName»  
 «Address1»  
 «CSZ»

Parcel Number: «apn»  
 Account Number: «acctnum»

Current Billing for period: \$«Curr\_bill\_amt»

	<u>HCF*</u>	<u>@</u>	<u>\$</u>
Current Usage	«curr_usage»	0.98	«curr_amt»
Normal Usage (Prior year)	«prior_usage»	0.98	«prior_amt»
Excess Usage @ production rate	«diff_in_usage»	0.350	«diff_amt»
Non-Beneficial Use Adjustment			<u>\$ («credit amt»)</u>
Adjusted billing			<u>\$ «adj_billing»</u>

\*HCF = hundred cubic feet

---

See section 4.10 of the District's Regulations Relating to Water service for policy.

Adjusted calculation is as follows:

- The normal usage for a comparable billing period subtracted from the total actual usage equals excess usage.
- The normal usage billed at the prevailing water rate plus the excess usage billed at the prevailing District's production rate for treated water is subtracted from the current charges. The resulting amount shall be the amount of adjustment granted.

I AGREE TO ACCEPT THIS ADJUSTMENT AND UNDERSTAND NO FURTHER CREDIT WILL BE ALLOWED WITHIN TEN YEARS FROM THIS AGREEMENT.

Customer's Signature \_\_\_\_\_ Date \_\_\_\_\_

Credit approved by: \_\_\_\_\_  
 Manager of Finance

Nevada Irrigation District  
 1036 W. Main Street (530) 273-6185  
 Grass Valley, CA 95945 or 1-800-222-4102

PLEASE RETURN TO CUSTOMER SERVICE

July 27, 2015

«Title» «FirstName» «LastName»  
«Address1»  
«CSZ»

Re: «acctnum»

Dear «Title» «LastName»:

In response to your request regarding the increase in consumption, we have calculated a non-beneficial use credit in the amount of \$«credit\_amt» for a «Num\_of\_months» month period, that may be applied to account number «acctnum» at «prop\_addr».

The District's non-beneficial use credit can only be granted once each ten years. We will not be able to grant any further credits if another high billing should occur before the ten year period has passed.

If you decide to accept this adjustment, please sign and return the enclosed worksheet and we will apply a \$«credit\_amt» credit to your account. This will leave a \$«Bal\_after\_adj» «Complete\_sentence».

If you have any questions, please contact the undersigned.

Very truly yours,

[CAA Name]  
Customer Accounting Administrator

[CAA initials]:«your\_inits»  
Enclosure

**NON-BENEFICIAL USE ADJUSTMENT-OUTSIDE DISTRICT**

July 27, 2015

«Title» «FirstName» «LastName»

«Address1»

«CSZ»

Parcel Number: «apn»

Account Number: «acctnum»

Current Billing for period:

\$«Curr\_bill\_amt»

	<u>HCF*</u>	<u>@</u>	<u>\$</u>
Current Usage	«curr_usage»	0.98	«curr_amt»
Normal Usage (Prior year)	«prior_usage»	0.98	«prior_amt»
Excess Usage @ production rate	«diff_in_usage»	0.350	«diff_amt»
Non-Beneficial Use Adjustment			<u>\$ («credit_amt»)</u>
Adjusted billing			<u>\$ «adj_billing»</u>

\*HCF = hundred cubic feet

See section 4.10 of the District's Regulations Relating to Water service for policy.

Adjusted calculation is as follows:

- c) The normal usage for a comparable billing period subtracted from the total actual usage equals excess usage.
- d) The normal usage billed at the prevailing water rate plus the excess usage billed at the prevailing District's production rate for treated water is subtracted from the current charges. The resulting amount shall be the amount of adjustment granted.

**I AGREE TO ACCEPT THIS ADJUSTMENT AND UNDERSTAND NO FURTHER CREDIT WILL BE ALLOWED WITHIN TEN YEARS FROM THIS AGREEMENT.**

Customer's Signature \_\_\_\_\_ Date \_\_\_\_\_

Credit approved by: \_\_\_\_\_

Manager of Finance

Nevada Irrigation District

1036 W. Main Street

Grass Valley, CA 95945

**PLEASE RETURN TO CUSTOMER SERVICE**(530) 273-6185  
or 1-800-222-4102

## NEVADA IRRIGATION DISTRICT

**RAW WATER SERVICE – INFORMATION ROUTE SHEET**  
**(NOTE: THIS IS NOT AN APPLICATION FOR SERVICE)**

Date _____	Phone _____	<u>FOR DISTRICT USE ONLY</u>
Applicant _____		Route No. _____
Mailing Address _____		Wtr Dist. Op. _____
		Facility Name _____
Service Address _____		Facility No. _____
		Field Appt. _____

Parcel No. \_\_\_\_\_ Acres \_\_\_\_\_ Information Taken By \_\_\_\_\_

Type of Crop and No. of Acres to be Irrigated \_\_\_\_\_

1. Box installations can take up to thirty days or longer. Due to high flows in certain canals during the irrigation season, some outlet boxes may not be installed until the end of the season.

The customer is responsible for the acquisition and maintenance of any required easements or permits; the installation, maintenance, and operation of the private service pipeline and appurtenances thereof, located on the customer's side of the service valve and/or box.

We certify that the foregoing information is true and correct, and have read all of the above, and understand the water is to be used only on the above described property.

Signature of Property Owner \_\_\_\_\_

Date \_\_\_\_\_

Owner's signature required on this route sheet prior to processing application.

Parcel Location: Placer \_\_\_\_\_ Nevada \_\_\_\_\_ Inside Dist. \_\_\_\_\_ Outside Dist. \_\_\_\_\_

Tax Rate Area Code \_\_\_\_\_ Map Attached \_\_\_\_\_ Railroad Commission Policy Yes \_\_\_\_\_ No \_\_\_\_\_

Service Requested: Seasonal \_\_\_\_\_ Amt. \_\_\_\_\_ M.I. Winter Service \_\_\_\_\_ Amt. \_\_\_\_\_ M.I.

Additional Outlet \_\_\_\_\_ Acct. # \_\_\_\_\_

Access to District Facility Yes \_\_\_\_\_ No \_\_\_\_\_ Easement Needed? Yes \_\_\_\_\_ No \_\_\_\_\_

Pvt Pipeline Form Required? Yes \_\_\_\_\_ No \_\_\_\_\_ Date Issued \_\_\_\_\_ Date Ret \_\_\_\_\_

Availability based upon \_\_\_\_\_

Has Property a Treated Water Account? Yes \_\_\_\_\_ No \_\_\_\_\_ Account # \_\_\_\_\_

Will there be material dangerous to health or toxic substance used on property?

If yes, type of substance \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_

Property Owner advised of suspension date, if application is not completed?

1-800-222-4102

## FOR DISTRICT USE ONLY

(916) 273-6185

1. Service Box Size \_\_\_\_\_ Outlet Size \_\_\_\_\_ Length of Pipe \_\_\_\_\_ Valve &amp; Cover \_\_\_\_\_

Orifice Size \_\_\_\_\_ Screening Device Required Yes \_\_\_\_ No \_\_\_\_

Unusual Conditions that must be reviewed in field Yes \_\_\_\_ No \_\_\_\_

Comments \_\_\_\_\_

Are there any existing Encroachments on District facilities? Yes \_\_\_\_ No \_\_\_\_

Does Applicant plan to construct any new facilities on District's facility? Yes \_\_\_\_ No \_\_\_\_

If yes, check: Fence \_\_\_\_ Culvert \_\_\_\_ Bridge \_\_\_\_ Water or Sewer \_\_\_\_ Other \_\_\_\_

Location sketch (if needed) Yes \_\_\_\_ No \_\_\_\_

Reviewed in field by \_\_\_\_\_ Date \_\_\_\_\_

2. Amount of Water Sale \_\_\_\_\_ M.I. Comments \_\_\_\_\_

Date \_\_\_\_\_ Approved: \_\_\_\_\_

Raw Water Supervisor

3. Backflow Prevention Backflow prevention device needed? Yes \_\_\_\_ No \_\_\_\_

Type of device \_\_\_\_\_ Size \_\_\_\_\_ Model \_\_\_\_\_

Reason \_\_\_\_\_ By \_\_\_\_\_ Date \_\_\_\_\_

## 4. Charges

Outlet Box \_\_\_\_\_

Extra Pipe \_\_\_\_\_

Orifice \_\_\_\_\_

Screening Device \_\_\_\_\_

Backflow Prevent \_\_\_\_\_

Other \_\_\_\_\_

5. Application Sent Yes \_\_\_\_ No \_\_\_\_

Date \_\_\_\_\_ By \_\_\_\_\_

Signed Application Received

Back Date \_\_\_\_\_

Date Service to be initiated \_\_\_\_\_

District Outside/Inside

Verification \_\_\_\_\_

6. Fees Paid \_\_\_\_\_

To Maintenance \_\_\_\_\_

By \_\_\_\_\_

7. Box Number \_\_\_\_\_

Date Box Installed \_\_\_\_\_

Installed By \_\_\_\_\_

8. Contact WDO at time of installation \_\_\_\_\_



Account Number

NEVADA IRRIGATION DISTRICT  
Agricultural Water

Date

Parcel  
Route number

Canal  
Increase Decrease

Miners Inches

Outlets Rotation

Winter Service

Service address

Service conn. fee

Amount Paid Date

Name  
Address

APPLICATION FOR INSIDE DISTRICT AGRICULTURE IRRIGATION WATER SERVICE FROM:  
ORIGINAL - RETURN TO NID 1036 W. MAIN ST., GRASS VALLEY, CA 95945  
WITH YOUR REMITTANCE  
NEVADA IRRIGATION DISTRICT  
TELEPHONE (530) 273-6185  
PLACER OFFICE (530) 823-2466  
GRASS VALLEY 1-800-222-4102

NEW SERVICE INCREASE TRANSFER DECREASE ACCOUNT NUMBER APPROVED BY  
OWNER DATE ROUTE  
THE APPLICANT REQUESTS DISTRICT TO SUPPLY WATER FOR AGRICULTURAL IRRIGATION PURPOSES AS INDICATED BELOW:

DELIVERY TO BE MADE FROM PRIMARY PARCEL ACRES  
SERV. ADDRESS  
ADDITIONAL PARCELS  
BOX NUMBER(S)

for the purpose as indicated on the crop acreage report. Service to be in accordance with conditions printed on back of this application and other rules and regulations of the District. Owner and/or applicant agrees to pay such service at rates and charges established by the District from time to time.

SUMMER M.I. CHARGE CHARGE OUTLET(S)  
WINTER SERVICE M.I. DAYS FROM TO ROTATION  
DEMAND WATER M.I. DAYS FROM TO CHARGE  
FALL WATER M.I. DAYS FROM TO CHARGE

STATE/COUNTY MANDATED FEE ENERGY PUMPING COST  
TOTAL CHARGES MINIMUM PAYMENT DUE SERVICE CONNECTION FEE  
PAYMENT: WATER OUTLET RECEIVED BY

BOX NUMBER(S)  
OWNER/APPLICANT SIGNATURE CERTIFIES THAT  
ADDRESS APPLICANT HAS READ AND AGREES TO THE TERMS  
OF THIS APPLICATION AND WILL COMPLY WITH THE  
CONDITIONS PRINTED ON THE BACK OF THIS  
APPLICATION.

SIGNATURE OF OWNER  
SIGNATURE OF APPLICANT

CROP ACREAGE REPORT

APPLICATION WILL NOT BE  
ACCEPTED WITHOUT THIS  
INFORMATION

ROUTE NUMBER  
ACCOUNT NUMBER  
NAME  
TEL NO. (OPTIONAL)  
WATER PURCHASED  
TOTAL ACRES OWNED

TOTAL ACRES  
IRRIGATED

CEREALS

- 1. CORN
- 2. RICE
- 3. WHEAT
- 4. OTHER

FRUITS

- 21. APPLES
- 22. BERRIES ALL
- 23. CHERRIES
- 24. CITRUS ALL
- 25. GRAPES TABLE
- 26. GRAPES OTHER
- 27. KIWI
- 28. PEACHES
- 29. PEARS
- 30. PLUMS
- 31. OTHER

TOTAL ACRES  
IRRIGATED

41. NURSERY

TOTAL ACRES  
IRRIGATED

FORAGE

- 11. ALFALFA HAY
- 12. HAY OTHER
- 13. IRRIGATED PASTURE
- 14. SILAGE
- 15. OTHER

61. OTHER

(SPECIFY)

71. FAMILY GARDENS, ORCHARDS, YARDS  
REPORT ACRES ONLY

51. NUTS  
(SPECIFY)

PARCEL NUMBERS

COMMENTS



## **CONDITIONS OF ACCEPTANCE OF WATER SERVICE**

1. Application for water is made on the reverse side hereof under and subject to the Bylaws, Rules and Regulations, and rates of tolls and charges adopted or to be adopted by the Board of Directors of Nevada Irrigation District. Applicant hereby grants the right of access for employer and equipment of measuring devices, delivery gates and valves in any conduit necessary for the distribution, measurement and control of water delivered under this application. The District, its officers or employees, shall not be liable for damages to persons or property occasioned through the exercise of such right, or for the negligent, wasteful or other use or handling of water by the users thereof.
2. The District expressly reserves the right to recapture, re-use and re-sell all return flow when it shall have passed from the premises of the applicant.
3. In accepting this application, Nevada Irrigation District does not hold itself liable to the applicant for failure to perform any of the obligations imposed upon it or assumed by it, if such failure shall be caused by inevitable accident, Act of God, fire, strikes, riots, war, shortages in water supply or any other cause beyond the reasonable control of the District.
4. All water furnished by the District flows through many miles of open ditches and is therefore subject to pollution, shortages, fluctuation in flow and interruption in service. District employees are forbidden to make any agreements binding the District to serve an uninterrupted constant supply of water. All water furnished by the District will be on the basis of irrigation deliveries for agricultural crops. Every user putting the water to other uses does so at his own risk and agrees to hold the District, and its officers and employees free and harmless from the liabilities and damages that may occur as a result of such use. District will not be liable for defective quality of water, shortage of water, either temporary or permanent, or for failure to deliver such water. District assumes no liability for damages to persons or property occasioned through defective conduits, meters or measuring devices. District does not sell water to cultivate or sustain fish life.
5. Applicant shall:
  - a. Provide all necessary facilities including all easements to transport such water from existing conduit of District to the Applicant's land.
  - b. Be solely responsible for any damage caused by water delivered under this agreement.
  - c. Handle water supplied hereunder that there shall be no unnecessary waste.
  - d. Not use the water, delivered under this application, on property other than that listed by the application.

6. This contract shall not create or convey any right, title or interest, legal or equitable, in or to the property, ditches, water and water rights of the District nor interfere with or obstruct the full, free and unobstructed use and disposition thereof by District. District shall have full control of the distribution of water through its canal system, and the right to establish and enforce such rules and regulations as it may deem expedient; and the furnishing of water hereunder shall not give rise by user or otherwise to any right to require water to be furnished to said lands, or any part thereof, or other lands, or become the basis of a permanent right.
7. Applicant and/or owner of the land herein described to be served agree that if charges are not paid in full when due, service may be denied and the amount due may become a lien upon any real property owned or subsequently acquired by the user in accordance with Section 25806 of the Water Code of the State of California.
8. Cancellation of seasonal irrigation water may be made up to June 1 of each year by written notice of the property owner either in whole or in part provided the water contracted for can be resold. The proportions of such seasonal application cancelled must be paid in accordance with prevailing District Rules and Regulation.
9. Unauthorized taking of water in an amount greater than applied for, and paid for by any means, without consent of the District, is subject to prosecution and or penalties as prescribed by the Board of Directors.
10. Summer water deliveries shall begin on or about April 15 and winter water deliveries shall begin on or about October 15.

Inside District ☐ New Service ☐ Turn On ☐  
 Transfer ☐  
 Date \_\_\_\_\_

Service Worker \_\_\_\_\_  
 Route \_\_\_\_\_ Dir. Code \_\_\_\_\_  
 Continuous flow of \_\_\_\_\_ miner's inches.  
 Delivery from \_\_\_\_\_

Owner \_\_\_\_\_

Account # \_\_\_\_\_  
 Parcel \_\_\_\_\_  
 Effective Date \_\_\_\_\_  
 Applicant \_\_\_\_\_  
 Address \_\_\_\_\_

Amount of payment received \$ \_\_\_\_\_  
 Service Connection Fee \_\_\_\_\_  
 Former Consumer \_\_\_\_\_  
 Box Number \_\_\_\_\_

Co. No. \_\_\_\_\_ Account No. \_\_\_\_\_

New Service ☐ Transfer ☐ Turn On ☐

Application for Continuous Agricultural Irrigation Water Service from

**NEVADA IRRIGATION DISTRICT**

1036 W. Main Street, Grass Valley, California 95945  
 (530) 273-6185

Service Worker \_\_\_\_\_ Route \_\_\_\_\_ Date \_\_\_\_\_ 19\_\_\_\_  
 The applicant requires District to supply water for Agricultural Irrigation purposes as indicated below.

Continuous flow of summer \_\_\_\_\_ winter \_\_\_\_\_ miners inches

Delivery to be made from \_\_\_\_\_ Director Code \_\_\_\_\_

To be used on property owned by \_\_\_\_\_

Service address \_\_\_\_\_ Parcel \_\_\_\_\_

Continuous billing to become effective \_\_\_\_\_ 19\_\_\_\_ per rate schedule in force.

Continuous application for year around service for the \_\_\_\_\_ Irrigation season and winter service period and thereafter until terminated by written notice. This service is strictly for the convenience of the customer and is not offered for any form of intermittent service. Any deviation from this particular application will result in the consumer being placed on a seasonal Irrigation application and the payment of all back charges to the date of turn off.

Former Consumer \_\_\_\_\_ Box Number \_\_\_\_\_

Acres owned \_\_\_\_\_ Acres to be irrigated \_\_\_\_\_

Type of irrigation: Orchard \_\_\_\_\_ Garden \_\_\_\_\_ Pasture \_\_\_\_\_ Other \_\_\_\_\_  
 Service to be in accordance with conditions printed on back of this application and other rules and regulations of the District. Applicant agrees to pay for such service at rates of tolls and charges as established by the District from time to time. Service under this application is for Agricultural Irrigation purposes only and the water and service facilities are not deemed suitable for any use except propagation of agricultural crops. Water sold under this application not fit for human consumption.

Payment Received on Bill \$ \_\_\_\_\_ Signature of Owner \_\_\_\_\_

Service Connection Fee \$ \_\_\_\_\_ Mailing Address \_\_\_\_\_

Other \$ \_\_\_\_\_

Total Received \$ \_\_\_\_\_

By \_\_\_\_\_



## CONDITIONS OF ACCEPTANCE OF WATER SERVICE

1. Application for water is made on the reverse side hereof under and subject to the Bylaws, Rules and Regulations, and rates of tolls and charges adopted or to be the Board of Directors of Nevada Irrigation District. Applicant hereby grants the right to the devices, delivery gates and valves in any conduit necessary for the distribution, measurement and control of water delivered under this application. The District, its officers or employees, shall not be liable for damages to persons or property occasioned through the exercise of such right, or for the negligent, wasteful or other use of handling of water by the users thereof.
2. The District expressly reserves the right to recapture, re-use, and re-sell all return flow when it shall have passed from the premises of the applicant.
3. In accepting this application, Nevada Irrigation District does not hold itself liable to the applicant for failure to perform any of the obligations imposed upon it or assumed by it under this application if such failure shall be caused by inevitable accident, Act of God, fire, strikes, riots, war, shortage in seasonal water supply or any other cause beyond the reasonable control of the District.
4. All water furnished by the District flows through many miles of open ditches and is therefore subject to pollution, shortages, fluctuation in flow and interruption in service. Nevada Irrigation District employees are not authorized to make any agreements binding the District to serve an uninterrupted constant supply of water. All water furnished by the District will be on the basis of irrigation deliveries for agricultural crops and every user putting the water to other uses does so at his own risk, and by doing so assumes all liability for and agrees to hold the District, and its officers and employees free and harmless from the liabilities and damages that may occur as a result of defective water quality, shortages, fluctuations in flow and interruptions in service, District will not be liable for defective quality of water, shortage of water, either temporary or permanent, or for failure to deliver such water. District assumes no liability for damages to persons or property occasioned through defective conduits, meters or measuring devices.
5. Applicant shall:
  - a. Provide all necessary ditches and facilities to conduct such water from existing conduit of District to the applicant's land.
  - b. Be solely responsible for any damage caused by water delivered under this agreement.
  - c. So handle water supplied hereunder that there shall be no unnecessary waste thereof.
  - d. Water delivered under this application shall not be used on property other than that covered by the application.
6. This contract shall not create or convey any right, title or interest, legal or equitable, in or to the property, ditches, water and water rights of the District nor interfere with or obstruct the full, free and unobstructed use and disposition thereof by District; and District shall have full control of the distribution of water through its canal system, and the right to establish and enforce such rules and regulations as it may deem expedient; and the furnishing of water hereunder shall not give rise by user or otherwise to any right to require water to be furnished to said lands, or any part thereof, or other lands, or become the basis of a permanent right.
7. Applicant and/or owner of the land herein described to be served agree that if charges are not paid in full when due, service may be denied and the amount due may become a lien upon any real property owned or subsequently acquired by the user in accordance with Section 25806 of the Water Code of the State of California.





**APPLICATION FOR INTERMITTENT FLOW AGRICULTURE IRRIGATION WATER SERVICE FROM  
NEVADA IRRIGATION DISTRICT**

ORIGINAL – RETURN TO NID  
WITH YOUR REMITTANCE

1036 W. MAIN ST., GRASS VALLEY, CA 95945

TELEPHONE (530) 273-6185  
AUBURN AREA 878-1857

NEW SERVICE ☐ TRANSFER ☐ ACCOUNT NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

PROPERTY OWNED BY \_\_\_\_\_ SERVICE AREA \_\_\_\_\_  
PROPERTY OWNER REQUESTS DISTRICT TO PROVIDE AGRICULTURE RAW INTERMITTENT FLOW WATER TO BE USED ON \_\_\_\_\_

NEVADA CO. \_\_\_\_\_ PLACER CO. \_\_\_\_\_ PARCEL NO/S \_\_\_\_\_

TOTAL ACRES OWNED \_\_\_\_\_ DIVERSION TO BE MADE FROM \_\_\_\_\_ (WATER COURSE)

DURING THE SEASON OF APRIL 15 THROUGH OCTOBER 15, 19\_\_\_\_ SERVICE ADDRESS \_\_\_\_\_

ACRE FEET OF INTERMITTENT FLOW WATER \_\_\_\_\_ CHARGES \_\_\_\_\_

ACRES TO BE IRRIGATED \_\_\_\_\_ OTHER USES \_\_\_\_\_

SERVICE TO BE IN ACCORDANCE WITH CONDITIONS PRINTED ON BACK OF THIS APPLICATION INCLUDED AS PART OF THIS APPLICATION AND RULES AND REGULATIONS OF THE DISTRICT ON FILE AT DISTRICT OFFICE, AS ADOPTED NOW OR IN THE FUTURE. APPLICANT AGREES TO PAY SUCH SERVICE AT RATES OF TOLLS AND CHARGES AS ESTABLISHED BY THE DISTRICT FROM TIME TO TIME.

CONDITIONS OR REMARKS \_\_\_\_\_

NOTE: APPLICATION FOR WATER MUST BE ACCOMPANIED BY PAYMENT. SEE RULES ON FILE AT DISTRICT OFFICE FOR TERMS OF PAYMENT. SERVICE UNDER THIS APPLICATION IS FOR AGRICULTURAL IRRIGATION PURPOSES ONLY AND THE WATER IS NOT DEEMED SUITABLE FOR ANY USE EXCEPT PROPAGATION OF AGRICULTURAL CROPS, OWNER/APPLICANT HAS READ AND UNDERSTANDS AND AGREES TO ALL CONDITIONS OF APPLICATION. SEE REVERSE SIDE.

PAYMENT OF \_\_\_\_\_ RECEIVED \_\_\_\_\_ BY \_\_\_\_\_

OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_

OWNER/APPLICANT SIGNATURE CERTIFIES THAT  
APPLICANT HAS READ AND AGREES TO THE TERMS  
OF THIS APPLICATION.

SIGNATURE OF OWNER \_\_\_\_\_

SIGNATURE OF APPLICANT \_\_\_\_\_

**CROP ACREAGE REPORT**

**APPLICATION WILL NOT BE  
ACCEPTED WITHOUT THIS  
INFORMATION**

ROUTE NUMBER \_\_\_\_\_

ACCOUNT NUMBER \_\_\_\_\_

NAME \_\_\_\_\_

TEL. NO. (OPTIONAL) \_\_\_\_\_

WATER PURCHASED \_\_\_\_\_

TOTAL ACRES OWNED \_\_\_\_\_

<b>CEREALS</b>	<b>TOTAL ACRES IRRIGATED</b>	<b>FRUITS</b>	<b>TOTAL ACRES IRRIGATED</b>	<b>TOTAL ACRES IRRIGATED</b>
1. CORN _____		21. APPLES _____		41. NURSERY _____
2. RICE _____		22. BERRIES ALL _____		
3. WHEAT _____		23. CHERRIES _____		
4. OTHER _____		24. CITRUS ALL _____		
(SPECIFY) _____		25. GRAPES TABLE _____		
		26. GRAPES OTHER _____		51. NUTS _____
		27. KIWI _____		(SPECIFY) _____
		28. PEACHES _____		
<b>FORAGE</b>				
11. ALFALFA HAY _____		29. PEARS _____		
12. HAY OTHER _____		30. PLUMS _____		
13. IRRIGATED PASTURE _____		31. OTHER _____		61. OTHER _____
14. SILAGE _____		(SPECIFY) _____		(SPECIFY) _____
15. OTHER _____				
(SPECIFY) _____				
				71. FAMILY GARDENS, ORCHARDS, YARDS REPORT ACRES ONLY _____

PARCEL NUMBERS \_\_\_\_\_

COMMENTS \_\_\_\_\_



## **CONDITIONS OF ACCEPTANCE OF INTERMITTENT FLOW IRRIGATION WATER SERVICE**

1. Application for intermittent flow irrigation water is made on the reverse side hereof under and subject to the Rules and Regulations and rates of tolls and charges adopted or to be adopted by the Board of Directors of Nevada Irrigation District. Applicant hereby grants the right to the Nevada Irrigation District to install, maintain, control and regulate any measuring devices, meters, delivery gates and valves in any waterway necessary for the distribution, measurement and control of water delivered under this application. Applicant agrees to indemnify District, its officers or employees from any claims of damages to persons or property, including Applicant, occasioned through the exercise of such rights or for the negligent, wasteful or other use or handling of water by the Applicant or District.
2. The District expressly reserves the right to recapture, re-use and re-sell any return flow which shall have passed from the premises of the applicant.
3. District makes no express or implied warranty or representation regarding the service under this application or the potential of damage to the property or persons of Applicant or third persons arising from the service. Applicant agrees that it has fully investigated these subjects prior to execution of this application.
4. Intermittent flow irrigation water furnished by the District cannot be supplemented by an auxiliary supply and therefore cannot be considered or classified as a dependable supply. Water sold under this application is subject to pollution, outages, shortages, fluctuation in flow and interruption in service. District employees are forbidden to make any agreements binding the District to serve an uninterrupted constant supply of water. All water furnished by the District will be on the basis of irrigation deliveries for agricultural crops and every user putting the water to other uses does so at his own risk and by doing so assumes all liability for and agrees to hold the District and its officers and employees free and harmless from the liabilities and damages that may occur as a result of defective water quality, outages, shortages, fluctuations in flow and interruptions in service. Applicant agrees that District, its officers or employees will not be liable for defective quality of water, shortage of water, either temporary or permanent, or for failure to provide such non-firm water and Applicant shall indemnify District from any claims or expenses incident to defending such claims. District shall have no liability for damages to Applicant or other persons or property occasioned through defective conduits, meters or measuring devices.
5. Applicant shall:
  - a. Provide all necessary ditches and facilities to conduct such water from the source to the Applicant's land.
  - b. Be solely responsible for any damage caused directly or indirectly by water delivered under this agreement.

- c. So reasonably handle water supplied hereunder that there shall be no unnecessary waste or damage to third persons.

6. This contract shall not create or convey any right, title or interest, legal or equitable, in or to the property, ditches, water and water rights of district nor interfere with or obstruct the full, free and unobstructed use and disposition thereof by District; and District shall have full control of the distribution of water through its canal system and the right to establish and enforce such rules and regulations (on file at District office) as it may deem expedient; and the furnishing of water hereunder shall not give rise to user or other party of any right to require water to be furnished to said lands, or any part thereof, or other lands, or become the basis of a permanent right.

7. District does not undertake to (1) maintain the watercourse or water carrying facilities utilized in this service nor (2) to participate in any action or proceeding to defend or quantify Applicant's right to utilize any part of the flow in the watercourse under this application.

NAME: \_\_\_\_\_ ACCOUNT NO: \_\_\_\_\_  
FACILITY: \_\_\_\_\_

## 2000 OUTSIDE DISTRICT SURPLUS RAW WATER AGREEMENT

THIS AGREEMENT is made and entered into on \_\_\_\_\_ by and between NEVADA IRRIGATION DISTRICT, hereinafter referred to as "DISTRICT" and \_\_\_\_\_, hereinafter referred to as "APPLICANT".

### RECITALS

WHEREAS, District owns certain water and water rights which are held in public trust and dedicated for use upon lands within the boundaries of District; and

WHEREAS, District has at times, water (hereinafter referred to as "surplus water") not actually needed for use upon lands within the boundaries of District, but subject to being put to such use at any time; and

WHEREAS, Applicant is the owner of certain land or lands located outside of the boundaries of District, which lands are located in \_\_\_\_\_ County, more particularly described as County Parcel \_\_\_\_\_ and desires to purchase surplus water on temporary basis for agricultural purposes.

NOW, THEREFORE, the parties hereto do mutually agree as follows:

1. Recitals: The recitals set forth herein are an integral part of this Agreement.
2. Sale of Surplus Water: District agrees to sell to Applicant for the period April 15, \_\_\_\_ to \_\_\_\_\_, surplus water for agricultural purposes, provided, however, that such water shall be supplied only at such times, and in such quantities and at such rate of flow as District, in its sole discretion, from time to time, determines Applicant should be so supplied in light of other needs, and water will not be supplied hereunder when needed for use within the District.

3. District's Charges to Applicant for Service and Supply of Surplus Water. Applicant hereby requests water from District at the following rates:

Seasonal Miners Inches      Charges

\_\_\_\_\_ Additional Outlet (s) \_\_\_\_\_ Energy Surcharge \_\_\_\_\_

Winter Service Miners Inches \_\_\_\_\_ Charges \_\_\_\_\_

State/County Mandated Fees: \_\_\_\_\_ TOTAL CHARGES \_\_\_\_\_

### TERMS OF PAYMENT: BELOW INCLUDES CREDIT BALANCE OF

1. TOTAL CHARGES DUE WITH APPLICATION:
2. BALANCE OF CHARGES DUE ON OR BEFORE JUNE 15:

A. Charge for Late Payment: Applicant shall pay a late payment charge equal to ten percent (10%) of the amount of charges remaining unpaid on July 15, \_\_\_\_, October 15, \_\_\_\_, and February 15, \_\_\_\_\_. The ten percent (10%) late payment

charge shall be added to and become a part of the total balance due and owing District by Applicant.

B. Applicant's Grant of a Lien to District for Delinquent Water Charges: Applicant hereby grants District a lien upon all lands owned or subsequently acquired by Applicant for purposes of securing water charges which remain unpaid by applicant following the date of July 15, \_\_\_\_\_. By the execution of this Agreement, Applicant understands and agrees that the District may have a lien on all lands owned or subsequently acquired by Applicant should Applicant fail to pay water charges incurred pursuant to the terms of this Agreement on or prior to the date of July 15, \_\_\_\_\_. Applicant also agrees that the lien procedure as set forth in this Agreement is in addition to the right of District to discontinue water service without notice to applicant. Should Applicant incur charges for water service pursuant to the terms and provisions of this Agreement, which charges become delinquent, and should District elect to place a lien upon land owned or subsequently acquired by Applicant in accordance with Water Code Section 25806, Applicant understands and agrees that Applicant may obtain a release of said lien by promptly remitting all charges due and owed District at District's main offices located at 1036 W. Main Street, Grass Valley, California. Upon District receiving full payment from Applicant for all charges for water service pursuant to the terms of the Agreement, District shall prepare and record a Satisfaction and Release of Lien.

4. Rules and Regulation of District: Applicant understands and agrees that all water provided and served Applicant pursuant to the terms and provisions of this Agreement is provided subject to the District's Rules and Regulations adopted by District from time to time. Nevada Irrigation District does not hold itself liable to the applicant for failure to perform any of the obligations imposed upon it or assumed by it under this application if such failure shall be caused by inevitable accident Act of God, fire, strikes, riots, was, shortage in seasonal water supply or any other cause beyond the reasonable control of the District.

5. Water to be Used for Agricultural Irrigation Purposes Only: Applicant understands and agrees that District service of agricultural irrigation water to Applicant pursuant to the terms and provision of this Agreement is solely for agricultural irrigation purposes and that the water and service facilities are not deemed suitable for any use except propagation of agricultural crops. Applicant understands that should water be used for any other purposes other than the propagation of agricultural crops such as for domestic purposes, etc., serious illness could result.

6. Creation of Water Right Excluded: Applicant and District agree that the terms and provisions of this Agreement shall not create or convey any right, title or interest, legal or equitable, in or to the property, ditches, conduits, water or water rights of District, nor interfere with or obstruct the full, free and unobstructed use and disposition thereof by District; and District shall have full control of the distribution of water throughout its system, including the right to establish and enforce such rules and regulations as District may deem expedient from time to time, and the furnishing of water hereunder to Applicant shall not give rise by use or otherwise to any right of applicant to require water to be furnished to said property of Applicant or become the basis of a permanent water right.

7. Applicant to Furnish Facilities and Rights of Way to District's System: Applicant understands and agrees that Applicant shall provide at his sole cost and

expense all necessary pumps, pipes and water distribution facilities related thereto, which facilities are necessary to conduct and convey water from the existing District system to Applicant's property. Applicant shall also be responsible for obtaining all rights-of-way or other interests in real property which are necessary to convey and conduct water from District's existing system to Applicant's property.

8. Applicant Shall Hold District Harmless: Applicant understands and agrees that Applicant is fully responsible for all damages caused by reason of water delivered to Applicant pursuant to the terms and provisions of this Agreement. In this regard, Applicant shall hold District, its officers, directors and employees free and harmless from any and all claim, liability or damage in the event Applicant suffers some damage or injury by virtue of not receiving water pursuant to the terms and provisions of this Agreement or receiving such water in an inadequate supply.

9. Use of Water: Applicant understands and agrees that water delivered to Applicant by District pursuant to the terms of this Agreement shall not be used on property other than that set forth in the terms of this Agreement.

10. Binding Upon Successors in Interest: The terms and provisions of this Agreement shall be binding upon the heirs, executors, administrators, successors in interest and assigns of the parties hereto.

11. Time is of the Essence: Time is of the essence of each of the terms and provisions of this Agreement.

12. Attorney Fees: Should any litigation be instituted or commenced relating to a breach of any term or provision of the Agreement or to specifically enforce a term or provision of this Agreement or to recover costs, charges, etc., then and in that event the prevailing party in such litigation shall be entitled to attorney fees and costs of litigation including, but not limited to, deposition costs, expert witness fees and consultant's fees.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first above written.

NEVADA IRRIGATION DISTRICT

By \_\_\_\_\_  
General Manager

By \_\_\_\_\_  
Applicant

\_\_\_\_\_  
Mailing Address of Applicant

By \_\_\_\_\_  
Authorized Agent of Applicant

\_\_\_\_\_  
Mailing Address of Authorized  
Agent of Applicant





NEVADA IRRIGATION DISTRICTACCOUNT/OUTLET BOX DELETION REQUEST

In order to delete your account, or have one or all of your outlet boxes removed, as you have requested, you must sign and date in the space provided and return this form to Nevada Irrigation District.

By signing for a deletion, you agree to relinquish all rights to the outlet box.

If you should decide to resume water service, you must apply for a new account by completing a route sheet, signing an application and paying the current fees. The new service will be granted only if water is available.

PARCEL NO. :

ACCT. NO.:

BOX NO:

ROUTE  
NO:

CANAL NAME:

FACILITY #:

SERVICE  
ADDRESS:

NAME:

MAILING ADDRESS:

- ☐ REMOVE OUTLET BOX (If there are multiple boxes on the account)
- ☐ REMOVE OUTLET BOX AND DELETE ACCOUNT
- ☐ DELETE ACCOUNT (Private Pipelines Only)
- ☐ REMOVE ORIFICE PLATE

DATE MAILED

INFORMATION COMPLETED BY

-----  
I have read, understand and agree to the foregoing conditions as checked above.

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

Please return signed form  
by:

-----  
**MAINTENANCE USE ONLY:**

BOX # \_\_\_\_\_ REMOVED ON

BY \_\_\_\_\_



**AUTHORIZATION FOR THE NEVADA IRRIGATION DISTRICT  
TO PROVIDE WATER SERVICE FROM A PRIVATE CONDUIT**

Date \_\_\_\_\_ Phone \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 APN \_\_\_\_\_  
 Service Address \_\_\_\_\_  
 Amount Requested \_\_\_\_\_ M.I.  
 Route No. \_\_\_\_\_  
 WDO \_\_\_\_\_

**FOR DISTRICT USE ONLY**

Acct. No. \_\_\_\_\_ Nev. Co. \_\_\_\_\_  
 Placer County \_\_\_\_\_  
 Exist. Sales \_\_\_\_\_ Outlet Size \_\_\_\_\_  
 Acres \_\_\_\_\_ Initiated by \_\_\_\_\_  
 Customer Notified of Possible Charges for Upsizing  
 Service \_\_\_\_\_  
 Approved Raw Water Supervisor \_\_\_\_\_

The undersigned, being applicants requesting water service through the hereinafter described private conduit, and the owners of said private conduit do hereby request and authorize the Nevada Irrigation District, on behalf of applicant and at applicant's sole cost and expense, to deliver into said owner's private conduit the water purchased by applicant, more particularly described as follows:

Served from Facility Name \_\_\_\_\_ Facility Number \_\_\_\_\_

Private Conduit Name \_\_\_\_\_ NID Outlet No. \_\_\_\_\_

It is understood by the undersigned that water service in connection with the private conduit is subject to the following terms, covenants, and conditions, all of which are hereby agreed to by the undersigned.

1. It is understood and agreed that the water service is subject to the regulations, conditions of acceptance of water service as set forth in applicant's application for water service, and rates, tolls and charges now in effect and as hereinafter established from time to time by the Nevada Irrigation District Board of Directors.
2. It is further understood and agreed that the District does not guarantee continuous or adequate service; that its obligation to deliver water ceases at its diversion from the Nevada Irrigation District conduit, and that the service is subject to the conditions and limitations of the private conduit through which service is being made.
3. It is further understood and agreed that the District reserves the right to discontinue service if private conduit is not maintained by its owner or owners at all times in a manner which will meet with the District's approval.
4. It is further understood and agreed that the District shall not be responsible for the quality of water or any damages in connection with the water delivered to the undersigned through said private conduit. In this connection, the undersigned do hereby agree to hold the Nevada Irrigation District, its agents, servants and employees free and harmless from any damages or liability resulting therefrom or in connection with said private conduit.

This application and permit shall bind and benefit the undersigned, their heirs, successors and assigns and is revocable by owner(s) with due notice, and written notification to District and Applicant.

Applicant Name (print) \_\_\_\_\_ Signature\_\_\_\_\_ Date \_\_\_\_\_

Owner Name (print) \_\_\_\_\_ Signature\_\_\_\_\_ Date \_\_\_\_\_

Owner Name (print) \_\_\_\_\_ Signature\_\_\_\_\_ Date \_\_\_\_\_

## NEVADA IRRIGATION DISTRICT

ISSUED  
BY \_\_\_\_\_1036 W MAIN STREET,  
GRASS VALLEY, CA 95945(530) 273-6185  
1-800-222-4102 AUBURN

## TURN ON – OFF REQUEST

FACILITY \_\_\_\_\_

ROUTE # \_\_\_\_\_ DATE \_\_\_\_\_

CLASS OF SERVICE

CYCLE ACCOUNT

☐ RAW WATER BOX # \_\_\_\_\_

LOCATION NEVADA \_\_\_\_\_

☐ TREATED METER # \_\_\_\_\_

INSIDE DISTRICT \_\_\_\_\_ PLACER \_\_\_\_\_

BOOK # PARCEL # \_\_\_\_\_

OUTSIDE DISTRICT 1234 YUBA \_\_\_\_\_

NAME \_\_\_\_\_

PROPERTY  
ADDRESS \_\_\_\_\_OWNER'S  
SIGNATURE X \_\_\_\_\_☐ REGULAR WORKING HOURS TURN ONDATE TURN ON \_\_\_\_\_ DATE  
TURN OFF \_\_\_\_\_☐ AFTER HOURS TURN ON

TURN ON FEE \$ \_\_\_\_\_

COMMENT \_\_\_\_\_

ACTION TAKEN

☐ TURN ON

DATE \_\_\_\_\_

☐ TURN OFF

TIME \_\_\_\_\_ AM/PM

REMARKS OR OTHER ACTION \_\_\_\_\_

DATE THIS SLIP RETURNED  
TO OFFICE: \_\_\_\_\_

SIGNATURE \_\_\_\_\_

SERVICE WORKER/METER READER \_\_\_\_\_



NEVADA IRRIGATION DISTRICT  
APPLICATION FOR PUBLIC FIRE HYDRANT

APPLICANT

DATE: \_\_\_\_\_

NAME:

ADDRESS:

**THE APPLICANT HEREBY APPLIES TO THE NEVADA IRRIGATION DISTRICT FOR A PUBLIC FIRE HYDRANT AT THE LOCATION DESCRIBED BELOW: (ATTACH LOCATION SKETCH, IF NECESSARY).**

THE INSTALLATION OF THE PUBLIC FIRE HYDRANT SHALL BE GOVERNED BY THE DISTRICT'S REGULATIONS.

**APPLICANT UNDERSTANDS AND AGREES THAT DISTRICT DOES NOT ASSUME LIABILITY OR RESPONSIBILITY FOR THE PROVISION OR SUPPLY OF WATER OR FACILITIES FOR FIRE PROTECTION AND APPLICANT AGREES TO HOLD DISTRICT FREE AND HARMLESS FROM INJURY OR DAMAGE CAUSED FROM LACK OF WATER OR PRESSURES IN DISTRICT'S LINE.**

SIGNED: \_\_\_\_\_

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**(APPLICANT)**

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**OFFICIAL USE ONLY**

**FIRE DISTRICT APPROVAL** (Fire District or similar agency, if there is one)

NAME \_\_\_\_\_

By \_\_\_\_\_  
(signature)

ADDRESS \_\_\_\_\_

Title \_\_\_\_\_

\_\_\_\_\_

Date \_\_\_\_\_

**NEVADA IRRIGATION DISTRICT APPROVAL**

By: \_\_\_\_\_  
(Signature)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Deposit Received: \_\_\_\_\_  
(amount)





## NEVADA IRRIGATION DISTRICT

**1. APPLICATION FOR PRIVATE FIRE SERVICE**

The Applicant hereby applies to the Nevada Irrigation District for a \_\_\_\_\_ inch private fire service to be installed at the following location: (attach location sketch, if necessary)

\_\_\_\_\_  
\_\_\_\_\_

Will a domestic water service be required at this site? Yes\_\_\_\_No\_\_\_\_. If yes, please complete Form 4-A, Request for New Treated Water Service.

The Applicant agrees to hold District free and harmless from injury or damage caused from lack of water or pressure in the District line and also acknowledges that backflow protection will be required at service connection should any chemical additive or auxiliary water be required for fire fighting purposes and that the private fire service installation shall be governed by the District's regulations.

Date \_\_\_\_\_ Assessor's Parcel No. \_\_\_\_\_

Owner's Name \_\_\_\_\_ Phone \_\_\_\_\_  
Owner must sign (Application)

Mailing Address \_\_\_\_\_

Contractor/Representative \_\_\_\_\_ Phone \_\_\_\_\_

Mailing Address \_\_\_\_\_

☐ Applicant is responsible to route application through Fire Dept. ☐

**2. FIRE DISTRICT USE ONLY****Class of Fire System****Check One:**

- ☐ Class I – Direct connections from domestic water mains only; no pumps or reservoir; no physical connections to other water supplies; no anti-freeze or other additives of any kind; and all sprinkler drains discharge to atmosphere.
- ☐ Class II – Same as Class I, except that booster pumps may be installed in the service lines from the street mains. A connection for a fire pumper truck may be provided if the requirements outlined in the Joint Informational Bulletin are met. (See Appendix A).
- ☐ Class III – Direct connection to public water supply main, with on-site storage or pressure tanks. All storage facilities must only be filled by or connected to the public water supply, and the water in these facilities must be maintained in a potable condition.
- ☐ Class IV – Directly supplied from public mains similar to Classes I and II, with an unapproved auxiliary water supply on or available to the premises, or a connection for fire pumper trucks that does not meet the requirements in the Joint Informational Bulletin.
- ☐ Class V – Directly supplied from public mains and interconnected with unapproved auxiliary supplies, such as: pumps taking suction from reservoirs exposed to contamination, or from rivers, ponds, wells, or industrial water systems; or systems where anti-freeze or other additives are used.
- ☐ Class VI – Fire suppression systems supplied from both an industrial water system and the public water system, with or without gravity storage or pump suction tanks.
- ☐ Other (explain) \_\_\_\_\_

Will any anti-freeze or other chemical additive be required in the private fire system?

Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, please explain \_\_\_\_\_

FIRE DISTRICT \_\_\_\_\_

By \_\_\_\_\_  
(signature)

Address \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

**3. N.I.D USE ONLY**

## OPERATIONS DEPARTMENT

Backflow Prevention Device Needed? Yes\_\_\_\_\_ No\_\_\_\_\_

Type of Device \_\_\_\_\_ Size\_\_\_\_\_ Model\_\_\_\_\_

Reason \_\_\_\_\_

By\_\_\_\_\_ Date \_\_\_\_\_

## ENGINEERING DEPARTMENT

Deposit Received\_\_\_\_\_ By\_\_\_\_\_ Date \_\_\_\_\_



## NEVADA IRRIGATION DISTRICT

## PRIVATE FIRE SERVICE TO MORE THAN ONE PARCEL

***The Applicant hereby applies for more than one parcel, as listed below, to be served from a private fire service. It is hereby certified that the Applicant is a landowner as listed below, or a credit-worthy legal entity and will be responsible for paying water use and other periodic charges associated with the private fire service. The Applicant will also be responsible for providing a contact for outage notices, etc.***

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 Applicant

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 Contact Person

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 Phone Number

By signing below, the landowners utilizing the private fire service acknowledge the District's right to lien their property for delinquent charges and that the fire service may be discontinued for nonpayment of charges and accept all risk of such discontinuance.

PARCEL NO.

LANDOWNER'S SIGNATURE

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NEVADA IRRIGATION DISTRICT APPROVAL

By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_



**NEVADA IRRIGATION DISTRICT**  
**APPLICATION FOR PUBLIC RAW WATER FIRE SERVICE**

Date \_\_\_\_\_ Fire Service No. \_\_\_\_\_ Size of Service \_\_\_\_\_

(Estimated) Installation Charge \_\_\_\_\_ Deposit Required \_\_\_\_\_

The following organized PUBLIC FIRE PROTECTION DISTRICT,

called Fire Department, hereby applies to the NEVADA IRRIGATION DISTRICT for a PUBLIC RAW WATER FIRE SERVICE at the following service address or location:

1. The Fire Department shall pay to the District, prior to the installation of said service, the total estimated cost of all materials, labor, and other costs incidental of the District's portion of the installation.
2. The time of installation or maintenance of the Public Raw Water Fire Service by the District shall be determined by the District on the basis of its overall scheduling requirements and needs, taking into account such factors as the availability of work crews, materials, equipment, other commitments and contracts of the District, and emergency jobs or installations. The District shall determine questions of overall District priorities.
3. The said service shall be connected to the District's general raw water distribution system at an approved location. No service will be allowed off of siphons. The service shall be subject to extreme variations in flow and temporary and extended shutdown periods required in the normal operation of the system. The District will be under no obligation to continue service in case of abandonment of the raw water facility on which the service is located.
4. It is understood that water delivered to the service may contain a certain amount of debris that could affect the quantity of water available to the fire service because of plugging or clogging. The District shall be held in no way responsible for loss or damages sustained due to such variations, temporary, or extended shutdowns. It is agreed that an in-line storage sump (of a size to be determined by the Fire Department) is needed downstream of the District's service point to provide fire protection during periods when water service is interrupted in the raw water distribution system.
5. The District does not guarantee or represent, and the Fire Department does not request that a specific or certain minimum volume of water will be available through said service at any time or times. The Fire Department agrees to hold District free and harmless from injury or damage caused from lack of water at the District facility.

6. The said service shall be used only for the purpose of extinguishing accidental fire (which shall include any of incendiary origin), and no connections of any kind whatever, other than to hydrants and hose reels, shall be made or permitted to be made to the pipe(s) supplied by said service. Discovery of any unauthorized service will result in termination of said fire service until the illegal connection has been removed and the point of illegal connection has been restored to a condition satisfactory to the District.
7. No charge will be made for water used for extinguishing accidental fires, but any water lost through leakage or used in violation of the above provisions shall be paid for by the Fire Department at double the applicable charge for water delivered.
8. The District's ownership and maintenance responsibility ends at the discharge side of the shut-off valve located immediately downstream of the service point. The Fire Department will own and maintain the fire service below said shut-off valve in a condition that will prevent any leakage of water from said fire service. Any noted leakage from the fire service will be grounds for terminating service until the situation is corrected. Periodic flushing of said service to remove accumulated debris will be permitted at no cost to the Fire Department.
9. Fire Department and the District agree that the District is not an insurer, and that it is impractical and extremely difficult to fix actual damages, if any, which may proximately result from a failure of the public raw water fire service or any phase thereof including the raw water distribution system and, in the case of failure of said service or any phase thereof, including the water distribution system and a resulting loss, the District's liability hereunder shall be limited to and fixed at the above cost of installation as liquidated damages, and not as a penalty, and this liability shall be exclusive.
10. This application is not operative until signed by an authorized representative of the District.
11. In case of the violation of any of the conditions contained in this application, the District may disconnect said service and in such event the District shall not be held in any way liable for loss or damage sustained due to such action.
12. The Applicant further agrees to be governed by the District's rules and regulations and charges in force, and such as may be adopted during the time the service is rendered at said location.

#### **OFFICIAL USE ONLY**

#### **FIRE DISTRICT APPROVAL**

(Fire District or similar agency if there is one)

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

\_\_\_\_\_

By \_\_\_\_\_  
(signature)

Title \_\_\_\_\_

Date \_\_\_\_\_



**NEVADA IRRIGATION DISTRICT APPROVAL**

By \_\_\_\_\_  
(signature)

Title \_\_\_\_\_

Date \_\_\_\_\_

Deposit Received \_\_\_\_\_  
(amount)

**CONVEYANCE AGREEMENT – MASTER**

**FORM 10-A**

**LEGEND**

**ZZ** – Developer's name (In Caps) =

**<<** -- Street address of Developer =

**>>** -- City, state, and zip code of Developer =

**YY** – Parcel number =

**ww** – Project known as, etc. =

**xx** – Filed in District office as =

**vv** – Engineering Firm =

**uu** – Description listing length & diameter of pipe, etc. =

**##** – How many sheets =

**qq** – County in =

## AGREEMENT

(Conveyance)

THIS AGREEMENT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between the NEVADA IRRIGATION DISTRICT, hereinafter referred to as "District" and ZZ, hereinafter referred to as "Developer".

### Recitals

WHEREAS, Developer has prepared or caused to be prepared, at Developer's sole cost, expense, and responsibility, plans and specifications entitled ww, (filed in District's office as xx"), as prepared by vv for construction of water system improvements consisting generally of uu and all appurtenances thereto, to provide treated water to qq County AP YY, a copy of which is attached hereto marked Exhibit "A" and made a part of this Agreement; and

WHEREAS, the plans and specifications contained in Exhibit "A" meet with the Department of Public Health and District Engineer's acceptance; and

WHEREAS, the facilities and lands to be served treated water by said water system improvements lie within the boundaries of the District and are more particularly described in Exhibit "A"; and

WHEREAS, Developer desires District to accept said water system improvements into District's overall water system upon completion; and

WHEREAS, District, subject to the following terms and conditions, as well as those contained in the District's Regulations Relating to Water Service, is willing to accept said water system improvements upon completion, provided the water system improvements are constructed in accordance with the plans and specifications and in a manner meeting District's approval;

NOW, THEREFORE, the parties mutually agree as follows:

ARTICLE 1 - RECITALS: The recitals contained herein are an integral part of this Agreement.

ARTICLE 2 - PLANS: Attached hereto marked Exhibit "A" and made a part of this Agreement is one set of plans reduced to 11" x 17", prepared by the Developer's licensed civil engineer, and consisting of ## sheets, and specifications for construction of water system improvements. The District's acceptance of these plans and specifications does not constitute a warranty or guaranty by District of proper design nor does it relieve Developer of responsibility for the proper design and construction of the improvements thereon.

### EITHER

ARTICLE 3 – CAPACITY CHARGES AND CONNECTION FEES: Pursuant to Section 10.07 of the District's "Regulations Relating to Water Service", a capacity charge for a minimum size meter shall be paid by the Developer for each parcel to be served by the water system improvements, prior to District's acceptance of the improvements. The capacity charge for a

EXHIBIT B

minimum-size meter shall be as shown in Schedule 4-A, entitled, "Treated Water System, Standby Charges, and Connection Fees", which is attached hereto and marked Exhibit "B" and made a part of this Agreement. Therefore, Developer, prior to conveying the water system improvements to District, agrees to and shall pay District the then current capacity charges for a 5/8-inch meter (currently \$\_\_\_\_\_) for each of the \_\_\_\_\_ parcels shown in Exhibit "A". Based on the current Schedule 4-A, the total capacity charges to be paid prior to conveyance equals \$\_\_\_\_\_. Developer understands and agrees to be bound by any District alterations, additions, amendments, revisions, or modifications to Schedule 4-A, or any other District policies, rules, or regulations.

Those parcels described in Exhibit "A", upon application for water service, shall be credited the then current capacity charges for a 5/8-inch meter and shall otherwise be subject to all connection fees as shown in the then current Schedule 4-A, or its equivalent, and all other then applicable fees and charges.

OR

ARTICLE 3 – CAPACITY CHARGES AND CONNECTION FEES: Developer shall prepay Capacity charges. The Capacity Charge for the type of development covered by the Conveyance Agreement shall be as shown in the most current edition of Schedule 4-A, entitled, "Treated Water System, Standby Charges, and Connection Fees", which is attached hereto and marked Exhibit "B", and made a part of this Agreement. Therefore, Developer agrees and shall pay District, prior to conveying the water system improvements to District, the then current capacity charges for each of the [Number & Description of Units]. Based on the current Schedule 4-A, capacity charges are \$\_\_\_\_\_ per unit. Therefore, based on the current Schedule 4-A, the total charges to be paid prior to the conveyance equals \$\_\_\_\_\_.

Developer agrees to, and shall pay District, the then current meter installation charges as shown in Schedule 4-A at the time of making application for water service. Developer also agrees to, and shall pay District, all other applicable fees and charges for water service.

Developer understands and agrees to be bound by any District alterations, additions, amendments, revisions, or modifications to Schedule 4-A, or any other District policies, rules, or regulations.

OR

ARTICLE 3 - CONNECTION FEES: Attached hereto and marked Exhibit "B" and made a part of this Agreement, is Schedule 4-A of the Board of Directors of Nevada Irrigation District entitled, "Treated Water System, Standby Charges, and Connection Fees". Developer understands and agrees to be bound by any District alterations, additions, amendments, revisions or modifications to Schedule 4-A or any other District policies, rules, or regulations. All parties hereby agree hereto that District is entitled to those connection fees (the sum of the meter installation and capacity charges) as specified in Schedule 4-A. District shall collect said connection fees at the time application for water service is made. It shall be incumbent upon the water service applicant to pay the then current connection fees and all other then applicable fees and charges.

If Required

ARTICLE 4 - ENGINEERING, PLAN-CHECK, AND INSPECTION SERVICES PERFORMED BY DISTRICT: District and Developer understand and agree that Developer shall assume the cost and expense of District's performance of "engineering, plan-check, and inspection services", hereinafter referred to as "inspection", in connection with Developer's construction of water system improvements described in Exhibit "A" attached hereto. Developer shall deposit the sum of \$\_\_\_\_\_, receipt of which is hereby acknowledged by District, which sum shall be applied to Developer's payment for inspection services performed by District. Should the fee for inspection services exceed the above deposit, Developer agrees to pay any balance due within 30 days after the date of the billing. A late payment charge of 1.5 percent per month will be added on any unpaid balance thereafter. Furthermore, the Developer agrees to pay any balance due prior to offering the improvements to District. District shall not accept conveyance until any balance due is paid. Should the fee for inspection services be less than the above deposit, District shall refund the remaining amount to Developer. The primary purpose of this paragraph within Article 4 is intended to compensate and reimburse District for any and all inspection services performed in connection with Developer's construction of treated water system facilities described in Exhibit "A" attached hereto. District's acceptance of payment for inspection services performed is not a warranty or guarantee by District of proper design or proper specifications of materials or construction.

ARTICLE 5 - LABOR AND MATERIAL PAYMENT BONDING REQUIREMENTS: The Developer shall defend and indemnify the District against all claims for nonpayment of labor, material, and other obligations incurred by the Developer, its agents, contractors, employees, and assigns. The estimated cost of construction of the water system improvements is \$\_\_\_\_\_.

Should the estimated cost of constructing the improvements be less than \$50,000 at the time of offering the water system improvements to the District, the Developer shall provide a written "OFFER OF DEDICATION" in the form as described in Exhibit "C" attached hereto and made a part hereof. The "OFFER OF DEDICATION" shall state inter alia that the improvements are free and clear of all liens, encumbrances, and other expense.

Should the estimated cost of constructing the water system improvements be less than \$500,000, but more than \$50,000, in addition to supplying a written "OFFER OF DEDICATION" in the form as described in Exhibit "C", the Developer shall either submit a "RELEASE" agreement in the form of Exhibit "D", attached hereto and made a part hereof, from each and every contractor, subcontractor, corporation, firm, person, or business entity furnishing materials for or performing labor or other services in performing the terms and provisions of this Agreement, or a Labor and Material Payment Bond to the District in the form prescribed by Exhibit "E" attached hereto and made a part hereof the principal sum of not less than the estimated construction cost as provided herein. In addition, Developer shall maintain an accurate and current list of all contractors, subcontractors, business entities, corporations, firms, and/or persons performing the terms and provisions of this Agreement, and shall make this list available to the District engineer upon request.

Should the estimated cost of constructing the water system improvements be in excess of \$500,000, the Developer shall, prior to commencing construction, submit a Labor and Material Payment Bond in the form as shown in Exhibit "E" attached hereto and made a part hereof. The bond shall be obtained at the sole cost of Developer and shall be in a principal amount of not less than the estimated cost of construction as set forth herein. In addition, the Developer shall, at the time of offering the water system improvements to the District, provide an "OFFER OF DEDICATION" statement in the form as set forth in Exhibit "C", attached hereto and made a part

hereof, which statement verifies that the water system improvements are free and clear of all liens, encumbrances, and other expense.

**ARTICLE 6 - INSURANCE REQUIREMENTS:** Prior to Developer's commencement of construction of the water system improvements as otherwise set forth in the terms and provisions of this Agreement, general liability insurance naming the District as additional named insured shall be taken out and maintained for the duration of this Conveyance Agreement by Developer or Developer's contractor for claims for damages to property, personal injury, bodily injury, and accidental death. The types of insurance covered under the general liability policy shall include, but not be limited to, comprehensive form, premises-operations, underground hazard, products/completed operations hazard, broad form property damage, independent contractor, and personal injury. Prior to any blasting operations for removal of rock, stumps, or other materials from the work area, the general liability policy must also contain explosion and collapse hazard coverage. It shall also include coverage for Products-Completed Operations liability losses for a period of 12 months from the date of District's acceptance of the completed works. (This time period corresponds with the 12-month maintenance bond requirement.) All insurance acquired under the terms of this article must be obtained through an insurance company authorized and licensed to do business in the State of California. The general liability policy shall contain limits of liability as follows:

1. Bodily Injury: \$1,000,000 for each occurrence, \$1,000,000 aggregate
2. Property Damage: \$500,000 each occurrence, \$500,000 aggregate.

General Liability Insurance policies having combined single limits damage combined of liability shall carry limits for bodily injury and property damage combined of \$1,000,000 each occurrence and \$1,000,000 aggregate.

The certificate of insurance shall also have a description of operations/locations/vehicles that refers specifically to the water system improvements.

**ARTICLE 7 - PROOF OF INSURANCE:** The Developer shall submit or cause to be submitted a copy of the insurance policy(ies) with endorsements and exclusions, and shall submit a certified copy of the endorsement naming the District as additional insured to the District as proof of general liability insurance as required by this Agreement. Developer shall receive District approval that the insurance requirements of this Agreement have been met. The Developer must receive this approval prior to the start of construction pursuant to the terms of this Agreement.

**ARTICLE 8 - HOLD HARMLESS AND INDEMNIFICATION:** Developer shall hold District and District's agents, officers, and employees harmless from any and all claims, lawsuits, acts, or omissions arising out of Developer's performance of the terms and conditions of this Agreement. Likewise, Developer shall defend and/or pay the cost of defending and indemnifying District together with District's Agents, employees, and officers from all civil proceedings, claims, and/or judgments including, but not limited to, payment of all attorney fees and litigation costs.

**ARTICLE 9 – INSPECTION OF WORK:** Developer shall give two working days' advance notice prior to Developer's contractor starting any work associated with the water system improvements and shall keep District informed of construction schedules throughout the course of the work in order for District to properly schedule inspection personnel. It is suggested that Developer's contractor provide District submittals on any materials proposed for the water system improvements for approval prior to purchase.

**Eff. 11/26/03; rev. 1/26/11**

ARTICLE 10 - BEGINNING OF WORK OR TERMINATION: This Agreement shall terminate and be of no further force or effect at District's discretion should District determine that Developer has failed to cause construction of the water system improvements as shown on Exhibit "A" to commence within nine (9) months from the date of this Agreement.

For purposes of this Article, Developer's commencement of construction shall not be deemed to have occurred upon one or any combination of the following actions or events:

1. Bid advertisement
2. Execution of contracts or bonds
3. Ordering of material and supplies or the delivery and stockpiling of materials and supplies on the job site.
4. Clearing and grubbing for or construction of roads including the completion of rough subgrade work.

District and Developer understand and agree that construction upon the water system improvements shall be deemed to have commenced when Developer causes its properly-licensed contractor to excavate and backfill pipeline in excess of 10 percent of the total water system to be constructed pursuant to the terms of this Agreement. The District engineer shall make the determination as to the percentage of water system caused to be constructed and installed by Developer.

ARTICLE 11 - CONSTRUCTION: Developer shall cause the water system improvements described in Exhibit "A" to be constructed by a properly-licensed contractor, without expense to District, and District shall not be responsible for any of the cost of said improvements. The Developer is not acting as a contractor, agent, official, or representative of District in constructing or providing such water system improvements, or in causing such improvements to be installed. This Agreement simply provides for the transfer and assumption of responsibility for such water system improvements to be installed upon completion and upon performance of all terms of this Agreement to be performed by Developer. The approval of the plans and specifications as presented by Developer shall not be deemed as a warranty or guarantee by District of proper design or proper specifications of materials or construction. District specifically relies upon the design and specifications as prepared or caused to be prepared by Developer as being in keeping with the requirements of District, as being in accordance with the conditions of the geography, and as having specific materials and equipment of the highest practicable quality and character. The Developer will provide a licensed civil engineer to act as the project engineer during construction.

ARTICLE 12 - NOTIFICATION OF DEVIATIONS OR FAILURES: District agrees to notify Developer in writing as to any deviations or failure in construction of the water system improvements pursuant to said plans and specifications, and the requirements of said District as soon as any deviation is brought to District's attention, and Developer shall immediately cause such deviation or failure to be corrected at the sole cost of Developer. Developer agrees that District is not, by inspection of the construction or installation of the improvements, representing Developer or providing a substitute for inspection and control of the work by Developer. Developer agrees that any inspections and observations of the work by District are for the sole purposes of providing notice of the stage and character of the work. Developer agrees that the failure of the District to note variances from the plans and specifications for the project does not excuse or exempt Developer from complying with all terms of these plans and specifications.



ARTICLE 13 - REIMBURSEMENT FOR MONIES EXPENDED BY DEVELOPER: Should Developer desire reimbursement for the monies expended in the installation and construction of water system improvements as provided in the terms and provisions of this Agreement in addition to all other monies expended for the acquisition of rights of way and employment of engineers and contractors for construction, planning, and design of the water system improvements, then Developer shall request such reimbursement in writing and deliver such writing to District headquarters 30 days prior to conveyance of the water system improvements to District as provided in Article 15 herein. District, upon receiving Developer's written request for reimbursement for monies expended pursuant to the terms and provisions of this Agreement, will then determine whether or not Developer is entitled to reimbursement pursuant to District policies, rules, and regulations then in effect. Should District determine that Developer may be entitled to reimbursement, then District, in its sole discretion, may enter into a reimbursement agreement with Developer which shall provide for the method and manner by which Developer would achieve reimbursement of its monies expended for the construction and installation of the water system improvements. Should the District, in its discretion, determine to enter into a reimbursement agreement with Developer, such agreement shall be prepared and entered into prior to Developer's conveyance of water distribution facilities to District, all as set forth in Article 15 herein. The reimbursement agreement shall provide for the method and manner by which District may assist Developer in obtaining reimbursement of a portion of monies expended by Developer for the water system improvements constructed pursuant to the terms of this Agreement.

The Developer is advised that for facilities installed with public funds, the Labor Code requires that all craftsmen, mechanics and laborers be paid the local prevailing wages. The District has not ascertained whether or not reimbursement could be construed as public funding. The Developer assumes all risk as to whether reimbursement could be construed as public funding, and indemnifies the District from all liability claims arising or alleged to arise from construction wages not conforming to local prevailing wages.

IF DISTRICT PARTICIPATION (Fee Credit or District Contribution) IS INVOLVED, INCLUDE THE FOLLOWING:

ARTICLE 14 – PREVAILING WAGES The Developer's attention is directed to and the Developer shall comply with Sections 1720 to 1780, inclusive of the California Labor Code,.

All craftsman, mechanics, and laborers employed or working upon the site of the work (water system improvements) will be paid unconditionally and without subsequent deductions or rebate on any account the full amounts due at the time of payment at wage rates not less than those contained in the wage determination which is referenced herein and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Developer, the Developer's Contractor and subcontractors and such laborers and mechanics.

In accordance with Section 1770 of the Labor Code, the District has ascertained that the local prevailing wage rates shall be as determined by the California Department of Industrial Relations. Said rates are accessible on the Internet under the heading "General Prevailing Wage Determination made by the Director of Industrial Relations pursuant to California Labor Code Part 7, Chapter 1, Article 2, Section 1770, 1773 and 1773.1". The Internet address is <http://www.dir.ca.gov/>. The wage determination shall be posted by the Developer's Contractor before start of work, throughout the work, and at the site of work in a prominent place where it can easily be seen by the workers.



The Developer, the Developer's Contractor, and his subcontractors shall comply with Section 1775 of the California Labor Code concerning the payment of prevailing rate of per diem wages. In accordance with this section, should the Developer's Contractor or his subcontractor fail to pay prevailing rates, the Labor Commissioner may assess monetary forfeitures. The Developer will be responsible for payment of any penalties. A labor and material payment bond is required as specified in this Conveyance Agreement.

**Eff. 11/26/03**

ARTICLE 14 - COMPLETION OF WORK OR TERMINATION: This Agreement shall terminate and be of no further force or effect at District's discretion should District determine that Developer has failed to cause construction of the water system improvements as shown on Exhibit "A" to be completed within one and one-half (1-1/2) years from the date of this Agreement.

For the purposes of this Article, Developer's completion of the construction shall occur upon the District's accepting conveyance of the water system improvements pursuant to Article 15 of this Agreement. Developer further understands and agrees that District may withhold acceptance of Developer's proposed dedication of the facilities should the District Engineer determine that any portion of the water system improvements have failed to pass appropriate pressure and leakage tests or that samples of water taken from the treated water lines and tested are determined not to be safe by the District Engineer. Developer understands and agrees the District may also withhold acceptance of the proposed dedication of water system should the District Engineer determine that Developer failed to complete all other construction either over, under or adjacent to the water system improvements including but not limited to final road grade, paving, curbs, gutters, sidewalks, all other utilities, and restoration of rights of way.

ARTICLE 15 - CONVEYANCE: Upon completion of the water system improvements in a manner meeting District's approval, Developer shall immediately convey said improvements and title thereto free and clear of all liens, encumbrances and expense to District by such conveyance and documents as deemed necessary by District, including but not limited to the following:

1. An executed "OFFER OF DEDICATION" (Exhibit "C") offering the water system improvements shown on Exhibit "A" to the District.
2. "RELEASE" statements (Exhibit "D") from every contractor, subcontractor, corporation, firm or business entity furnishing materials for or performing labor or other services, OR a Labor and Material Payment Bond (Exhibit "E"), all as specified in Article 5.
3. Developer shall provide District with proof satisfactory to District that Developer has acquired all local, state, and federal permits, maps or licenses and that Developer shall comply with all local, state and federal rules, ordinances and regulations relevant to the real property on, over or under which the water system improvements are situated.
4. Payment of capacity charges due District pursuant to then current District rules and regulations and as specified in Article 3 of this Agreement.
5. Payment of any balance due for engineering, plan-check, and inspection services performed by District.
6. One set of 24-inch by 36-inch reproducible "as-built" drawings on Mylar or material of suitable durability of the improvements constructed.
7. All easements and rights of way required by District.
8. The Developer-constructed water system shall be flushed (or re-flushed) and shall pass bacteriological testing no earlier than 14 calendar days prior to the date the General Manager accepts the Offer of Dedication. The Developer shall provide for proper drainage and de-chlorination equipment during flushing operations. **Eff. 11/26/03; rev. 7/29/04**

EXHIBIT B

9. Developer shall furnish a Maintenance Bond in the form prescribed in Exhibit "F" attached hereto and made part hereof in an amount of not less than 20 percent of construction cost of the water system improvements protecting the District against any failure of the work due to faulty materials, poor workmanship, or defective equipment within a period of one year following acceptance of the "OFFER OF DEDICATION" of the water system improvements by the District's Board of Directors.

In place of a Maintenance Bond, the Developer may offer a certificate of deposit or an irrevocable letter of credit meeting the District's approval as to form and financial institute utilized. Certificates of deposit used in lieu of a maintenance bond must be opened either in the Developer's name and specifically assigned to the District or opened on behalf of the District only. The signatory for the District shall be the Treasurer or Assistant Treasurer of the District.

District, upon approving the work in writing, shall accept the "OFFER OF DEDICATION" of the water system improvements and include said improvements into its overall water system and shall operate, maintain, and repair said improvements except as specified during the warranty period.

ARTICLE 16 - APPLICATION FOR WATER: No water shall be delivered to or conveyed by or through the water system improvements shown on Exhibit "A", other than for testing purposes, until said water system is conveyed to District, formally accepted by District, and proper applications for water service have been filed with District and accepted.

ARTICLE 17 - OBLIGATION FOR PIPELINES AND/OR FACILITIES: District shall be under no obligation to provide additional pipelines and/or facilities in order to serve water to Developer's project. Upon acceptance of the water system improvements by District, it shall become the sole property of District and shall be used and operated at District's sole discretion.

EITHER

ARTICLE 18 - RULES AND REGULATIONS: Upon the water system improvements being accepted by District, Developer, its successors and assigns, shall be subject to and shall comply with all of the rules and regulations of District and shall pay the water rates, tolls and charges, and standby charges as they may be levied and/or established by District's Board of Directors from time to time.

For purposes of determining standby charges, each parcel to be served from the water system improvements will be assessed from the District acceptance date regardless of the status of the recording of the final map by the appropriate county.

OR

ARTICLE 18 - RULES AND REGULATIONS: Upon the water system improvements being accepted by District, Developer, its successors and assigns, shall be subject to and shall comply with all of the rules and regulations of District and shall pay the water rates, tolls and charges, and standby charges as they may be levied and/or established by District's Board of Directors from time to time. In addition, Developer, its heirs, successors, conservators, guardians, and assigns shall be subject to compliance with the then current rules and regulations of District governing the conversion of multi-family units such as apartment units to condominium units which conversion currently requires payment of higher capacity fees to District and requires converting the District's

master meters now utilized for apartment (multi-party) units into separate meters for each condominium unit.

For purposes of determining standby charges, each parcel to be served from the water system improvements will be assessed from the District acceptance date regardless of the status of the recording of the final map by the appropriate county.

ARTICLE 19 - ASSIGNMENT: No transfer or assignment may be made by Developer of this Agreement or any part or interest of law unless such transfer or assignment is approved in writing by the District, provided further that District shall not unreasonably withhold consent to transfer or assignment. In the event of such transfer or assignment, District may, at its sole option and in addition to any other remedy that it may have, elect to terminate this Agreement.

ARTICLE 20 - NOTICES: The mailing addresses of District and Developer for purposes of giving any notice required pursuant to this Agreement are as follows:

DISTRICT

NEVADA IRRIGATION DISTRICT  
P O Box 1019  
Grass Valley, CA 95945

DEVELOPER

ZZ  
<<  
>>

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written.

NEVADA IRRIGATION DISTRICT

By \_\_\_\_\_  
President

By \_\_\_\_\_  
Secretary

DEVELOPER

By \_\_\_\_\_

By \_\_\_\_\_

## DEVELOPER'S IMPROVEMENT PLANS

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-A  
EFFECTIVE JANUARY 1, 2004

### TREATED WATER SYSTEM STANDBY CHARGES AND CONNECTION FEES

**STANDBY CHARGES** - \$6.00 per month for each parcel.

**CONNECTION FEES** 1/ Single family residence, commercial, industrial, and municipal.

Meter Size	Max Rated Capacity	Installation Charge	Capacity Charge	TOTAL Connection Fees 1/
5/8"	20 gpm	\$845.00	\$4,755.00	5,600.00
3/4"	30 gpm	875.00	7,895.00	8,770.00
1"	50 gpm	960.00	15,215.00	16,175.00
1 1/2"	100 gpm	1,810.00	35,665.00	37,475.00
2"	160 gpm	2,705.00	82,405.00	85,110.00
Over 2"			DETERMINED BY DISTRICT	

**MULTI-UNIT 2/** RESIDENTIAL DEVELOPMENT for which a master meter is required.

Meter Size	Connection Fees
5/8"	\$ 845 + unit charge/unit
3/4"	875 + unit charge/unit
1"	960 + unit charge/unit
1 1/2"	1,810 + unit charge/unit
2"	2,705 + unit charge/unit
over 2	Actual cost of installation plus unit charge/unit

Type Development	Unit	Unit charge
Mobile Home Park	Pad	\$ 2,130
Apartments	Dwelling	2,980
Senior Apartments 3/	Dwelling	1,265
Motels, Hotels	Dwelling	1,390
Campgrounds	Pad	2,355
Hospitals	Licensed Bed	2,290
Convalescent Hospitals & Resthomes:		
Skilled nursing	Licensed Bed	1,350
Board and care	Licensed Bed	730

1/ Varies with type of development

2/ Multi unit is defined as three or more.

3/ Proof must be provided that apartments are being developed under county ordinances relating to senior apartments or senior independent living centers.

EXHIBIT B

## OFFER OF DEDICATION

I/We hereby extend an offer to convey, transfer, and dedicate all rights, title, and interest in and to that certain water system and appurtenances more particularly described in Exhibit "A" attached to the Agreement by and between NEVADA IRRIGATION DISTRICT and ZZ hereinafter referred to as DEVELOPER, dated \_\_\_\_\_, 20\_\_\_\_, a copy of which is on file in District headquarters located in Grass Valley, California; to Nevada Irrigation District, assuring and warranting to said District that the water system for the project known as vw (filed in District's office as "xx"), is free and clear of all liens, encumbrances, and other expense.

I/We have constructed or caused the construction and installation of the water system and improvements described in Exhibit "A" attached to said Agreement, and do hereby assure and warrant to NEVADA IRRIGATION DISTRICT that the water system improvement facilities together with the contractors, subcontractors, employees, or agents of the Developer have been fully and completely paid and there exist no liens, encumbrances, stop notices, or claims on the water system improvement facilities or by any of the subcontractors, employees, or agents against the water system improvement facilities constructed pursuant to the terms of the above Agreement or against NEVADA IRRIGATION DISTRICT.

I/We declare under penalty of perjury that the foregoing is true and correct. Executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, in the City of \_\_\_\_\_, County of \_\_\_\_\_, State of California.

Developer

By \_\_\_\_\_

By \_\_\_\_\_

We accept this "OFFER OF DEDICATION" made by \_\_\_\_\_  
\_\_\_\_\_ on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Nevada Irrigation District

By \_\_\_\_\_

General Manager

Note: All blanks must be completed properly, otherwise the Nevada Irrigation District will not accept the Offer.

## RELEASE

FOR ADEQUATE CONSIDERATION, receipt of which is hereby acknowledged, the undersigned, jointly, severally, and individually releases and forever discharges the Developer, [ZZ](#), and NEVADA IRRIGATION DISTRICT, together with all other persons, firms, business entities, irrigation districts, and government entities whatsoever of and from any and all actions, causes of action, claims, demands, damages, stop notice actions, costs, expenses, liens, and compensation on account of or in any way growing out of the construction, installation, and work of those certain water system facilities described in the Conveyance Agreement dated \_\_\_\_\_, 20\_\_, by and between NEVADA IRRIGATION DISTRICT and the Developer named above; the project being known as [ww](#), (filed in District's office as "[xx](#)").

Individual Or Firm

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(City)

\_\_\_\_\_  
(State)

\_\_\_\_\_  
(Zip)

By \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Date)

Note: All blanks must be completed properly, otherwise the Nevada Irrigation District will not accept the release.

## LABOR AND MATERIAL PAYMENT BOND

By this Agreement \_\_\_\_\_  
of \_\_\_\_\_, hereinafter referred  
to as "Principal", and \_\_\_\_\_  
of \_\_\_\_\_

(a corporation certified as a corporation admitted to do business in the State of California as a surety insurer), hereinafter referred to as "Surety" are held and firmly bound to NEVADA IRRIGATION DISTRICT, hereinafter referred to as "District", and to any and all persons who perform labor upon, or furnish material to be used in, or furnish appliances, trucks, or power contributing to the work to be performed under an agreement (filed in District's office as "xx"), hereinafter specifically described in the amounts of \_\_\_\_\_ (\$\_\_\_\_\_), for the payment of which Principal and Surety hereby bind themselves, their heirs, legal representatives, successors, and assigns, jointly and severally.

On the date of \_\_\_\_\_, 20\_\_\_\_, Principal entered into an agreement with District for the principal purposes of constructing or providing for the construction of certain water system improvements, together with appurtenances thereto, to which agreement references are made for further particulars. A copy of the Agreement is attached hereto labeled Exhibit "A" and made a part hereof.

The condition of this obligation is that if the Principal shall promptly and faithfully make payment to all persons, firms, subcontractors, and corporations furnishing material for or performing labor thereof including all amounts due for materials, lubricants, labor, in the prosecution of the work provided for in the Agreement attached hereto as Exhibit "A" and any authorized extension or modification thereof including all amounts due for materials, lubricants, oil, gasoline, power, repairs on machinery, equipment, and tools consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all other labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise this obligation shall remain in full force and effect.

FOR VALUE RECEIVED, the Surety hereby agrees that no change, extension of time, alteration, or addition to the terms of the Agreement attached hereto as Exhibit "A" or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect the Surety's obligation on this Bond, and said Surety does hereby waive notice of any such change, extension of time, alteration, or addition or modification to the terms of the Agreement or to the work to be performed or to the specifications.

The lien claimants to whom the provisions of this Bond inure shall have a right of action to recover hereon in any suit brought to foreclose liens as provided by the Mechanics Lien Laws and Public Work Lien Laws of the State of California, or in a separate suit brought hereon. No final settlement or compromise between the District and the Developer shall abridge the right of any beneficiary hereunder to pursue such remedies as may be provided such beneficiary by California Law.

EXHIBIT 'E'

IN WITNESS WHEREOF, this Labor and Material Payment Bond is executed on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ in the City of \_\_\_\_\_, County of \_\_\_\_\_, State of California.

[Seal]

\_\_\_\_\_  
\_\_\_\_\_  
"PRINCIPAL"

[Seal]

\_\_\_\_\_  
\_\_\_\_\_  
"SURETY"

State of California     }  
                                      } ss  
County of \_\_\_\_\_}

Subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, at \_\_\_\_\_, California.

\_\_\_\_\_  
Notary Public

1) No \_\_\_\_\_

EXHIBIT 'E'



## MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That we, (2) \_\_\_\_\_ hereinafter called "Principal", and (3) \_\_\_\_\_ of \_\_\_\_\_, hereinafter called "Surety", are held and firmly bound unto the Nevada Irrigation District, Post Office Box 1019, Grass Valley, California 95945, hereinafter called "Obligee", in the sum of (5) \_\_\_\_\_ Dollars, (6)(\$\_\_\_\_\_) for the payment of which, well and truly to be made, the said Principal and Surety bind themselves, jointly, severally, and firmly by these presents together with their heirs, executors, administrators, successors, and assigns.

The condition of this obligation is such that whereas, the said Principal has entered into a certain Agreement with the Obligee (filed in District's office as "xx") dated (7)\_\_\_\_\_, this Maintenance Bond being Exhibit "F" of that Agreement, for the construction and the installation of water system improvements and all appurtenances thereto, the conditions of said Agreement being made a part hereof, wherein Principal agrees to repair, maintain, and remedy the water system improvements and all appurtenances for a period of one year following the date of Obligee's acceptance of the conveyance of the water system improvements and appurtenances.

NOW, THEREFORE, if the Principal shall maintain and remedy said work free from defects in materials and workmanship for a period of one year following the date on which the Board of Directors of the Obligee formally accepts conveyance of work described herein, then this obligation shall be void; otherwise, it shall remain in full force and effect.

IN WITNESS WHEREOF, this Maintenance Bond is executed on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, in the City of \_\_\_\_\_, County of \_\_\_\_\_, State of California.

(Seal) \_\_\_\_\_ (8)

(If Applicable) \_\_\_\_\_

(9)  
By \_\_\_\_\_  
"PRINCIPAL"

(Seal) \_\_\_\_\_ (10)

(11)  
By \_\_\_\_\_  
"SURETY"

(12) Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

EXHIBIT 'F'

State of California            }  
  } ss  
County of \_\_\_\_\_}

Subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, at \_\_\_\_\_, California.

\_\_\_\_\_  
*Notary Public*

- (1) Surety's Bond number for reference.
- (2) Same as "Developer" in Conveyance Agreement.
- (3) Full name of Surety Company.
- (4) State in which it was duly organized.
- (5) Amount as agreed to by District Engineer - spell out.
- (6) Numerical dollar amount.
- (7) Date of Agreement with the District.
- (8) Type or print Principals (correct) Corporate, Partnership, or individual's name, as the case may be.
- (9) Signature and seal, if applicable, must be witnessed and notarized.
- (10) Type or print Surety's corporate name.
- (11) Signature and seal must be witnessed and notarized. If signator for Surety is Attorney-in-fact, attach the proper Power of Attorney.
- (12) Enter mailing address of Surety for purposes of giving any notice pursuant to this Maintenance Bond.

## PERFORMANCE BOND

**KNOW ALL MEN BY THESE PRESENTS:** That we (1) \_\_\_\_\_

\_\_\_\_\_ a (2) \_\_\_\_\_

hereinafter called "Principal" and (3) \_\_\_\_\_

of \_\_\_\_\_ State of \_\_\_\_\_ hereinafter called the "Surety", are held and firmly bound unto Nevada Irrigation District, hereinafter called "Owner", in the penal sum of \_\_\_\_\_ Dollars (\$\_\_\_\_\_) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

**THE CONDITION OF THIS OBLIGATION IS** such that WHEREAS, the Principal entered into a certain agreement with the Owner, dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, a copy of which is hereto attached and made a part hereof for the construction of the \_\_\_\_\_, including all appurtenances thereto, all as set forth in the attached agreement.

**NOW, THEREFORE**, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions and agreements of said agreement during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the Surety, and if he shall satisfy all claims and demands incurred under such agreement, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

**PROVIDED, FURTHER**, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the agreement or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the agreement or to the work or to the specifications.

**PROVIDED, FURTHER**, that no final settlement between the Owner and the developer shall abridge the right of any beneficiary hereunder whose claim may be unsatisfied.

Performance Bond

ZZ

**IN WITNESS WHEREOF**, this instrument is executed in two (2) counterparts, each one of which shall be deemed an original, this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

ATTEST:

\_\_\_\_\_  
(Principal) Secretary

\_\_\_\_\_  
(Seal)

\_\_\_\_\_  
(Witness as to Principal)

\_\_\_\_\_  
(Address)

ATTEST:

\_\_\_\_\_  
(Surety) Secretary

\_\_\_\_\_  
(Seal)

\_\_\_\_\_  
(Witness as to Surety)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
Principal

By \_\_\_\_\_

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
Surety

By \_\_\_\_\_  
Attorney-in-Fact

\_\_\_\_\_  
(Address)

NOTE: Date of Bond must not be prior to date of Agreement.

- 1) Correct name of Developer.
- 2) A Corporation, A Partnership, or an Individual, as case may be.
- 3) Correct name of Surety.
- 4) If Principal is a Partnership, all partners must execute bond.

**NEVADA IRRIGATION DISTRICT  
1036 W. Main Street  
Grass Valley, CA 95945  
(530) 273-6185**

**VARIANCE REQUEST**

District regulations require, at least 50 percent of the parcel, but in no case less than 50 feet, must be fronted by a minimum 8-inch diameter water main. Owner hereby applies for a variance to District Regulations per Section 10.08. Consideration for approval of a variance is based upon the District's ability to provide treated water service to the subject property while maintaining orderly development of the water system.

(Please Type or Print Legibly)

**Owner's Name** \_\_\_\_\_

**Authorized Representative** \_\_\_\_\_

**Contact Mailing Address** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

**Contact Telephone Number** \_\_\_\_\_ **Fax Number** \_\_\_\_\_

**Property Address** \_\_\_\_\_

**County** \_\_\_\_\_ **Assessor's Parcel Number(s)** \_\_\_\_\_

**Present Zoning** \_\_\_\_\_ **Can property be further divided?** \_\_\_\_\_

**Does an auxiliary water supply exist?** Yes \_\_\_\_\_ No \_\_\_\_\_

**If yes check type:** Well \_\_\_\_\_ Spring \_\_\_\_\_ Irrigation Service \_\_\_\_\_ Other \_\_\_\_\_

**Desired Service Size:** 5/8" \_\_\_\_\_ 3/4" \_\_\_\_\_ 1" \_\_\_\_\_ Other \_\_\_\_\_

**Residential** \_\_\_\_\_ **Commercial/Industrial** \_\_\_\_\_ **# Units** \_\_\_\_\_

A nonrefundable Administrative Processing Fee of \$175 is due with this request.

**Property Owner's Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

THIS SIDE TO BE COMPLETED BY DISTRICT

**Parcel/Lot Number(s)**

Tax Area Code(s) \_\_\_\_\_ Inside District: Yes \_\_\_\_\_ No \_\_\_\_\_

**Prior Variance Request(s)** \_\_\_\_\_

**Right of Way**

- Existing right-of-way effecting the property or project? Yes \_\_\_\_\_ No \_\_\_\_\_
- If yes, Book \_\_\_\_\_ Document \_\_\_\_\_ (Of Record) Page \_\_\_\_\_ Deed \_\_\_\_\_
- Comments:

By \_\_\_\_\_ Date \_\_\_\_\_

**Operations Department**

- Comments:

By \_\_\_\_\_ Date \_\_\_\_\_

**Engineering Department**

- Pressure constraints:
- Comments:

By \_\_\_\_\_ Date \_\_\_\_\_

**Customer Service**

- Standby Factor \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_
- Improvement District \_\_\_\_\_ Buy-In Fee \_\_\_\_\_  
Reimbursement Agreement include variances? (Name agreement) \_\_\_\_\_

## VARIANCE REQUEST

Please provide a map, sketch or assessor's parcel map indicating the location of the property and the access thereto.

Describe why you believe a variance should be granted. Give any additional information you feel is pertinent to the variance request (You may submit a separate letter instead):

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

RECORDING REQUESTED BY:

**Nevada Irrigation District**

WHEN RECORDED MAIL TO:

**Nevada Irrigation District  
1036 West Main Street  
Grass Valley, CA 95945-5424**

APN: xx-xxx-xx-xxx

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**AGREEMENT FOR  
TEMPORARY WATER SERVICE AND CONTRIBUTION FOR  
FUTURE TREATED WATER MAIN EXTENSION  
XXXXXXX**

This agreement, made on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between the NEVADA IRRIGATION DISTRICT ("DISTRICT"), an irrigation district formed and existing pursuant to Division 11 of the Water Code of the State of California, and **XXXXXXXXXXXX** ("CUSTOMER"), authorizes a temporary domestic water service to the Customer, subject to certain conditions and obligations, and provides for the termination of such temporary water service upon the installation of future treated water mainline facilities ("FUTURE MAIN") fronting or abutting CUSTOMER'S PROPERTY and further provides as follows:

**RECITALS**

WHEREAS, Customer is the owner of a parcel of land located at **XXXXXXXX, CA XXXXXXXX**, known as Assessor Parcel No. **XX-XXX-XXX-XX**, of XXXXXXXX County, and more particularly described in vesting deed recorded on \_\_\_\_\_, Document Number \_\_\_\_\_, of **XXXXXX** County Records referred to as Exhibit "A", attached hereto and by this reference incorporated herein ("PROPERTY"); and

WHEREAS, CUSTOMER desires potable water service from DISTRICT and such service cannot be provided under DISTRICT'S established rules because PROPERTY is not fronted by a treated water main, and more than 300 feet of pipeline must be installed to provide a permanent water service to PROPERTY meeting DISTRICT'S rules for service; and

WHEREAS, CUSTOMER can access a DISTRICT treated water main that does not front PROPERTY through an easement, or easements, from neighboring property owners; and

WHEREAS, in lieu of installing more than 300-feet of mainline extension at this time, CUSTOMER is agreeable to pay CUSTOMER'S fair share of the FUTURE MAIN to be built by others, and has requested approval for a Temporary Service Location ("TSL") from DISTRICT until such FUTURE MAIN is constructed; and



WHEREAS, the TSL provides for a connection to DISTRICT'S treated water pipeline on **xxxxxxx Road** until a permanent service location is available, in accordance with the rules and regulations of DISTRICT, from the FUTURE MAIN; and

WHEREAS, in addition to paying all capacity charges and meter installation fees for the temporary and future connections to the DISTRICT pipelines, CUSTOMER is willing to contribute to the cost of the FUTURE MAIN based on DISTRICT'S estimates and formula for Treated Water Main Contribution ("TWM CONTRIBUTION"), as identified herein.

## AGREEMENT

NOW THEREFORE, DISTRICT and CUSTOMER agree as follows:

1. DISTRICT hereby approves CUSTOMER'S request for a TSL to provide treated water to the PROPERTY, in the approximate location shown on Exhibit "X", attached hereto, and subject to CUSTOMER'S payment of all charges and fees, and compliance with all terms of this Agreement.

2. Easements. CUSTOMER has obtained all necessary easements from neighboring property owners for the construction and maintenance of a temporary service line to the point of connection for the TSL, and all such easements are recorded with the County Recorder of **XXXXXXX** County, with a conformed copy of such recording on file with the DISTRICT.

3. Fees and Charges. CUSTOMER has paid the current connection fee for the TSL connection to the existing water main, and the current capacity charge for a **XX**-inch service. In addition, CUSTOMER has paid an amount equal to an additional connection fee representing the estimated costs for the relocation and future connection to the FUTURE MAIN at the permanent location, and any other related fees required by DISTRICT rules and regulations. For the purpose of this Agreement, current fees and charges shall mean the DISTRICT rates, fees, or charges that are in effect at the time of payment by CUSTOMER.

4. Contribution to the Future Main. CUSTOMER and DISTRICT understand and agree that the FUTURE MAIN will benefit CUSTOMER, that CUSTOMER desires to pay CUSTOMER'S fair share thereof, and that the TSL is not intended to be a permanent point for delivery of water service to CUSTOMER'S parcel. Therefore, CUSTOMER and DISTRICT agree that approval of this TSL does not reduce or eliminate CUSTOMER'S obligation to pay the pro-rata share of the FUTURE MAIN, and that the actual cost for the FUTURE MAIN, and CUSTOMER'S prorata share of that cost, can only be estimated at this time. Therefore, CUSTOMER agrees to contribute and the District acknowledges receipt of **\$X,XXX.XX** to the actual cost of the FUTURE MAIN, based on DISTRICT'S estimate and formula for a Treated Water Main, and both CUSTOMER and DISTRICT agree that the TWM CONTRIBUTION represents a reasonable pro-rata share of the current estimated cost of the FUTURE MAIN, including the costs for design, surveying, inspection, installation and materials, construction staking, and project management. No further contribution will be required of CUSTOMER for FUTURE MAIN unless PROPERTY subdivides.

The DISTRICT shall deposit the TWM CONTRIBUTION in an interest bearing account for use in funding the FUTURE MAIN by a private water line extender, DISTRICT, or another public agency.

5. Connection to the Future Main. Upon completion of the FUTURE MAIN, DISTRICT will install a meter to the FUTURE MAIN at the permanent service location fronting the PROPERTY, or at such other location as is consistent with DISTRICT'S rules and regulations. DISTRICT shall notify CUSTOMER of the meter availability at the permanent service location and provide CUSTOMER with 30 days notice of the termination of the TSL. Upon receipt of such notification, CUSTOMER shall re-plumb water service to the permanent meter location. All CUSTOMER'S costs that are necessary for disconnection from the TSL and of reconnecting the CUSTOMER'S buildings to the permanent service location, including the cost of all piping, trenching, valves, and landscape restoration shall be borne by the CUSTOMER. DISTRICT will remove the meter at the TSL and cut CUSTOMER'S service line connected thereto at any time after the expiration of said 60 days after it provides the notice specified above.

6. Single Use. Water service in accordance with this Agreement shall be for one single-family residence only - which may include one "granny unit," on the PROPERTY. Service to additional dwellings or parcels shall terminate this TSL.

7. Title. Grant of this TSL and related provision of domestic water service, and DISTRICT'S right to terminate said TSL upon notice of a permanent meter location constitutes a covenant running with and benefiting and burdening the PROPERTY, and further constitutes an equitable servitude running with said PROPERTY and may be enforced against CUSTOMER, the heirs, successors and assigns, at such time as said permanent service location has been provided by DISTRICT.

8. Termination. As and for further consideration of this TSL approval by DISTRICT, CUSTOMER, the heirs, successors and assigns, hereby agree that water service to be provided to the PROPERTY is subject to discontinuance by DISTRICT in the event of a breach of this Agreement by CUSTOMER, the heirs, successors and assigns.

THIS AGREEMENT is made by the undersigned parties on the date first written above, at Grass Valley, California.

CUSTOMER

NEVADA IRRIGATION DISTRICT (DISTRICT)

By: \_\_\_\_\_  
XXXXXXXXX

By: \_\_\_\_\_  
President of the Board of Directors

*[Notarize all signatures]*

## NEVADA IRRIGATION DISTRICT

## QUITCLAIM APPLICATION

Date:

Please furnish the following information:

1. Name of facility \_\_\_\_\_
2. Property Location (Use Assessor's Plat, or provide following info.):  
Assessor's Parcel No. \_\_\_\_\_ Section \_\_\_\_\_ T \_\_\_\_\_ N., R \_\_\_\_\_ E.
3. Lot No. \_\_\_\_\_ of Parcel Map or Subdivision Map Number \_\_\_\_\_ .
4. Copy of deed vesting title to property.
5. Title is to be granted in the name of:  
\_\_\_\_\_  
\_\_\_\_\_

Please note: A \$150 nonrefundable fee is required. (Recording fees not included). An additional \$100 fee will be applied if Board approval is required; a determination of which will be made at the time of application.

Nevada Irrigation District does not imply or warrant that the Quitclaim Deed will be approved and/or granted because of the acceptance of the required fee and/or this application.

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Accepted By

\_\_\_\_\_  
Date, Job Number



NEVADA IRRIGATION DISTRICT

**EASEMENT APPLICATION**

Date:

Please furnish the following information:

1. Name of facility \_\_\_\_\_

2. Property Location (Use Assessor's Plat, or provide following info.):

Assessor's Parcel No. \_\_\_\_\_ Section \_\_\_\_\_ T \_\_\_\_\_ N., R \_\_\_\_\_ E.

3. Lot No. \_\_\_\_\_ of Parcel Map or Subdivision Map Number \_\_\_\_\_ .

4. Copy of deed vesting title to property.

5. Title is to be granted in the name of:

\_\_\_\_\_  
\_\_\_\_\_

Please note: A \$250 nonrefundable fee is required. (Recording fees not included).  
An addition to the nonrefundable fee, a payment for the value of the  
easement, as determined by the District will be required.

Nevada Irrigation District does not imply or warrant that the Easement  
Deed will be approved and/or granted because of the acceptance of  
the required fee and/or this application.

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Accepted By

\_\_\_\_\_  
Date, Job Number



NEVADA IRRIGATION DISTRICT

ENCROACHMENT CONSTRUCTION AUTHORIZATION

APPLICATION FORM

No. \_\_\_\_\_

The undersigned hereby applies for permission to encroach upon a District Facility at the following location:

Assessors Parcel No. \_\_\_\_\_

In order to perform the following work: \_\_\_\_\_

\_\_\_\_\_

(Please provide an accurate description, sketch, etc. of work area location)

The undersigned has read all the provisions governing this authorization, and if the authorization is approved, agrees to perform the work in accordance with these provisions.

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Zip Code

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone

\_\_\_\_\_  
Routing (To Be Completed by N.I.D)

**Operations Department**

Name of District Facility

\_\_\_\_\_  
(Service Worker)

Sizing Information

Recommendations

\_\_\_\_\_  
Initials

\_\_\_\_\_  
Date

**Engineering Department**

Recommendations

\_\_\_\_\_  
Initials

\_\_\_\_\_  
Date

-----  
Applicant is hereby given approval to perform the above-described work in conformance with the specifications attached. This authorization is good through \_\_\_\_\_(date). Failure to properly complete subject work within the time allowed can result in the forfeit of the deposit. After successful completion of the work, an encroachment permit will be issued.

\_\_\_\_\_  
Engineering Department

\_\_\_\_\_  
Date

**PLEASE CONTACT DISTRICT FOR FINAL INSPECTION FOLLOWING COMPLETION OF THE WORK.  
THIS AUTHORIZATION IS SUBJECT TO THE FOLLOWING PROVISIONS:**





PROVISIONS GOVERNING THIS  
ENCROACHMENT CONSTRUCTION AUTHORIZATION

1. **PROPERTY INTEREST.** *This Authorization is valid only for the purposes specified herein and neither the Authorization nor use thereunder shall create an easement, right of way, or other interest in real property.*
2. **EXTENT OF USE UNDER AUTHORIZATION.** *The right to use structures or installations shall be limited to Applicant, his agents, and employees; Nevada Irrigation District (hereinafter referred to as "District") having the right of ingress and egress across any structure or installation at any time and all times.*
3. **MAINTENANCE AND REPAIR.** *Applicant shall maintain and repair the installation at all times at his sole cost and expense and in a condition satisfactory to District's Manager. Should the Applicant neglect to promptly make repairs, the District may make repairs, or have repairs made and Applicant shall pay all costs and expenses.*
4. **DAMAGE TO DISTRICT CANALS OR OTHER STRUCTURES.** *Applicant shall promptly repair, at his own cost, any damage caused to the District's canals or structures due to work under this Authorization to the satisfaction of District's Manager. Should Applicant neglect to promptly make repairs, District may make repairs or have repairs made and Applicant shall pay costs.*
5. **REVOCATION.** *District may revoke or cancel this Authorization upon giving notice to Applicant of intent to cancel or revoke Authorization and upon giving Applicant an opportunity to be heard regarding the cause of revocation or cancellation. Within ten (10) days subsequent to the requested hearing, District shall give written notice of its decision to either revoke or cancel the Authorization or to maintain the Authorization and its conditions in full force and effect. Upon receiving notice of revocation, the Applicant, at his cost, must remove the physical encroachment and restore the facility to its original condition. If the Applicant fails to satisfactorily remove the encroachment, the District will complete the work at the Applicant's sole cost.*
6. **UNPAID CHARGES.** *In the event Applicant fails to pay District's cost for labor, materials, and supplies, after being billed by the District, that are incurred under Provisions 3, 4, and 5 of this Authorization, the District may add the unpaid charges for services rendered to the annual assessment levied upon the land owned by the Applicant, within the District boundaries, all pursuant to Water Code Section 25806.*
7. **LIABILITY.** *Applicant shall assume entire responsibility for all activities and uses under this Authorization and shall save the District free and harmless from any and all expense, cost, or liability, in connection with, or resulting from the exercise of this Authorization including, but not limited to, property damage, personal injury, wrongful death, chemical treatment of water, cleaning operations of District ditches, any erosion of up-stream random silting of said reservoir are, and any, or all aquatic life, including fish life within said reservoir.*
8. **COVENANTS.** *The covenants, provisions, terms, and conditions contained in this Authorization shall bind and burden the successors and assigns of Authorization, as*

*well as binding and benefiting the successors and assigns of Authorization, as well as binding and benefiting the successors and assigns of the District.*

9. **ISSUANCE.** *This Authorization is issued under the Rules and Regulations Governing Physical Encroachment to District facilities and is subject to the rules and regulations stated within.*
10. **CONSTRUCTION.** *All work shall be constructed at Applicant's sole cost and expense in accordance with District plans and specifications attached hereto subject to the approval of District's Manager. The work area must also be cleaned to the satisfaction of District's Manager.*
11. **COMPLETION OF CONSTRUCTION.** *If the Applicant does not complete construction to the District's satisfaction within the time limit allowed, the District may, at its option, either complete the construction and installation of the physical encroachment, or cause the removal of the physical encroachment. In either case, the Applicant shall bear all cost and expense for labor, materials, and supplies.*
12. **WATER OUTAGES CAUSED BY CONSTRUCTION.** *Prior to commencing construction or installation of any physical encroachments which shall lie within, or cross over District facilities to such an extent as to cause a fluctuation or interference in District facilities, Applicant shall notify District of a possible need for an interruption in the flow of water through District works, commonly referred to as a "water outage". District may arrange for the Applicant to provide a water outage at such time as is convenient to the District. Applicant should provide District with at least seven (7) days advance notice of his plan to construct, or install a portion of the physical encroachment within District facilities causing the interruption or interference with water flow so that the District may properly plan for and arrange for an outage.*

RECORDING REQUESTED BY:

Nevada Irrigation District

AND WHEN RECORDED MAIL  
TO:Nevada Irrigation District  
1036 W. Main Street  
Grass Valley CA 95945

APN: - -

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**ENCROACHMENT PERMIT**

PERMITTEE:

No.

ADDRESS:

TELEPHONE: ( ) -

DESCRIPTION OF ENCROACHMENT:

DISTRICT FACILITY AFFECTED:

LOCATION: SECTION: TOWNSHIP NORTH, RANGE EAST, M.D.M., DEED:  
ASSESSOR'S PARCEL NO. - - COUNTY**PROVISIONS GOVERNING THIS ENCROACHMENT PERMIT**

1. **PROPERTY INTEREST:** This permit is valid only for the purposes herein and neither the Permit, or the use thereunder shall create an easement, right of way, or other interest in real property.
2. **EXTENT OF USE UNDER PERMIT:** The right to use structures or installations shall be limited to Permittee, his agents and employees; Nevada Irrigation District (hereinafter referred to as "District") having the right of ingress and egress across any structure, or installation at any and all times.
3. **MAINTENANCE AND REPAIR:** Permittee shall maintain and repair installation at all times at his sole cost and expense and in a condition satisfactory to District's Manager. Should the Permittee neglect to promptly make repairs, the District may make repairs or have repairs made and Permittee Shall pay all costs and expenses.
4. **DAMAGE TO DISTRICT CANALS, DITCHES OR OTHER STRUCTURES:** Permittee shall promptly repair, at his own cost, any damage caused to the District's canals, ditches, or structures due to work under this permit, to the satisfaction of District's Manager. Should Permittee neglect to promptly make repairs, District may make repairs or have repairs made and Permittee shall pay all costs.
5. **REVOCATION:** District may revoke or cancel this permit upon giving notice to Permittee of intent to cancel or revoke permit and upon giving Permittee an opportunity to be heard regarding the cause of revocation or cancellation. Within ten (10) days subsequent to the requested hearing, District shall give written notice of its decision to either revoke or cancel the permit, or to maintain the permit and its conditions in full force and effect. Upon receiving notice of revocation, the Permittee, at his cost, must remove the physical encroachment and restore the District facility to its original condition. If the Permittee fails to satisfactorily remove the encroachment, the District will complete the work at the Permittee's sole cost.
6. **UNPAID CHARGES:** In the event the Permittee fails to pay District's cost for labor, materials and supplies, after being billed by the District, that are incurred under Provisions 3, 4 and 5, of this permit, the District may add the unpaid charges for services rendered to the annual assessment levied upon the land owned by the Permittee within the District boundaries, all pursuant to Water Code Section 25806.
7. **LIABILITY:** Permittee shall assume entire responsibility for all activities and uses under this permit and shall save the District free and harmless from any and all expense, cost, or liability in connection with, or resulting from the exercise of this permit including, but not limited to, property damage, personal injury, wrongful death, chemical treatment of water, cleaning operations of District ditches, any erosion of up-stream random, silting of said reservoir area, and any, or all aquatic life, including fish life within said reservoir.
8. **COVENANTS:** The covenants, provisions, terms and conditions contained in this Permit shall bind and burden the successors and assigns of Permittee as well as benefiting the successors and assigns of District.
9. **ISSUANCE:** This permit is issued under the Rules and Regulations Governing Physical Encroachments to District Facilities and is subject to the rules and regulations stated within.

**THE UNDERSIGNED, BEING THE LEGAL OWNERS OF THE SUBJECT PROPERTY OF THIS PERMIT HAVE READ ALL PROVISIONS GOVERNING THIS ENCROACHMENT PERMIT AND BY SIGNING AGREE TO COMPLY WITH ALL PROVISIONS INCLUDED WITHIN.**

Date: \_\_\_\_\_ Owner(s) \_\_\_\_\_

Approved \_\_\_\_\_ day of \_\_\_\_\_ 1999 On behalf and for the Nevada Irrigation District.  
this \_\_\_\_\_\_\_\_\_\_  
Nevada Irrigation District Manager



## DOCK ENCROACHMENT PERMIT APPLICATION

(This form supplements the Encroachment Construction Authorization)

THIS IS A (check one):

☐ PRELIMINARY APPLICATIONA Preliminary Application is intended to result in a prompt, informal response indicating the advisability of a Formal Application for Development.☐ FORMAL APPLICATION FOR DEVELOPMENT PERMITA Formal Application for Development is subject to compliance with all applicable laws and District Regulations.

Name of Property Owner \_\_\_\_\_

Mailing Address \_\_\_\_\_ ZIP \_\_\_\_\_

Telephone Number \_\_\_\_\_

Assessor's Parcel No. \_\_\_\_\_

Contact Person (if other than property owner):

Name of Contact Person \_\_\_\_\_

Mailing Address \_\_\_\_\_ ZIP \_\_\_\_\_

Telephone Number \_\_\_\_\_

Is the proposed dock part of a related development project? \_\_\_\_\_

If "Yes", describe the project: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

What provisions are proposed for public access to the dock? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Does the applicant claim the right to use the dock for commercial purposes? Yes \_\_\_\_\_ No \_\_\_\_\_

\_\_\_\_\_  
Signature of Property Owner\_\_\_\_\_  
Date

## **SUBMITTALS TO ACCOMPANY APPLICATION**

### **PRELIMINARY APPLICATION**

1. A copy of the deed or contract under which the right to construct a dock is claimed.
2. A site plan and elevation view including dimensions.

### **FORMAL APPLICATION FOR DEVELOPMENT PERMIT**

1. A copy of the deed or contract under which the right to construct a dock is claimed.
2. A copy of a current title report or a title insurance policy describing the property and identifying the owner.
3. Plans and specifications, including site plan and elevation view, prepared by a Civil Engineer in accordance with Section 14.05.03 and 14.05.05 of the District's Regulations.
4. A CEQA submittal in accordance with Section 14.05.06 of the District's Regulations. (The District may request additional information to meet the requirements of Public Resources Code Section 21080.1).
5. A narrative analysis of any adverse impacts on public safety and recreational use of the reservoir, and any proposed mitigation measures.
6. Identification of all other permits and public agency approvals required for construction and maintenance of dock facilities and any related development projects. district will require securing of all necessary permits and approvals.
7. Certification that site is not on any hazardous waste or substance list under Government Code Section 65962.5.
8. Verification of insurability in accordance with Section 14.05.07 of the District Regulations.
9. Proposed provisions for public access.

**NOTE:** APPLICANTS FOR FORMAL DEVELOPMENT PERMITS WILL BE NOTIFIED WHETHER THEIR APPLICATIONS ARE COMPLETE WITHIN 30 DAYS OF RECEIPT. THE DISTRICT MAY REQUEST THE APPLICANT TO CLARIFY, AMPLIFY, CORRECT, OR OTHERWISE SUPPLEMENT THE REQUIRED INFORMATION. STAFF DETERMINATIONS AS TO COMPLETENESS ARE SUBJECT TO APPEAL, WHICH WILL BE DECIDED WITHIN 60 DAYS. APPLICATION, ONCE COMPLETE, WILL BE APPROVED OR DENIED WITHIN 6 MONTHS IF BASED UPON A NEGATIVE DECLARATION OR EXEMPTION, AND WITHIN 1 YEAR IF BASED UPON AN ENVIRONMENTAL IMPACT REPORT. APPLICANTS, UPON WRITTEN REQUEST, WILL BE SENT NOTICE OF ANY PROPOSALS TO AMEND THE DISTRICT'S DOCK ENCROACHMENT PERMIT REGULATIONS.

# Form 14-D

RECORDED AT REQUEST OF:

## NEVADA IRRIGATION DISTRICT

WHEN RECORDED MAIL TO

Nevada Irrigation District

1036 W. Main Street

Grass Valley, CA 95945

SPACE ABOVE THIS LINE FOR RECORDER'S USE

### DOCK ENCROACHMENT PERMIT

PERMITTEE \_\_\_\_\_ NO. \_\_\_\_\_

ADDRESS \_\_\_\_\_

ZIP \_\_\_\_\_

DISTRICT RESERVOIR AFFECTED \_\_\_\_\_

PROPERTY TO WHICH DOCK IS APPURTENANT (SEE EXHIBIT "A" ATTACHED) \_\_\_\_\_

### PROVISIONS GOVERNING THIS DOCK ENCROACHMENT PERMIT

1. **EXTENT OF USE UNDER PERMIT:** The right to install and use docks under this permit shall be limited to the Permittee, and his invitees, agents, and employees except insofar as the Permittee is otherwise obligated to provide public access. So long as the Permittee be not in default of the terms of this permit, the permit is appurtenant to the benefitted property described in Exhibit "A" attached, and shall pass to his heirs, successors, and assigns. Provided however, after recordation of this permit, subsequent subdivision of any parcel eligible for a dock shall not entitle each new parcel to a dock. Either the parties will share the single dock or the owner shall designate on the deed or subdivision map which parcel is to retain the dock rights.

2. **MAINTENANCE AND REPAIR:** Permittee shall maintain and repair the dock at his sole cost and expense. The dock shall be maintained in good and safe condition at all times.

3. **COMPLIANCE WITH DISTRICT DOCK ENCROACHMENT REGULATIONS:** Permittee shall comply with all District regulations applicable to dock encroachments.

4. **PAYMENT OF RESERVOIR FEES:** Watercraft owners or operators using Permittee's dock shall be subject to fees charged by the District, concessionaire or lessee, if any, for watercraft using the reservoir.

5. **DAMAGE TO DISTRICT PROPERTY:** Permittee shall promptly repair, at his own cost, any damage to District property due to work under this permit, to the reasonable satisfaction of the District. Should Permittee neglect to promptly make repairs, District may make repairs or have repairs made and Permittee shall reimburse the District for cost of such repairs.

6. **REVOCATION:** District may commence proceedings to revoke or cancel this permit only after giving written notice to Permittee and reasonable opportunity to correct any deficiency. If Permittee fails to make corrections in a timely manner, District may revoke the permit, upon giving written notice to Permittee of its intent to revoke the permit and reasonable opportunity to be heard regarding the cause for such revocation. Within 10 days subsequent to the hearing, the District shall give written notice of its decision to Permittee. Upon receipt of written notice of revocation, Permittee, at his cost, must remove the dock and restore the District property to its original condition. If Permittee fails to satisfactorily remove the dock, the District may complete the work at the Permittee's sole cost. Revocation of a dock encroachment permit shall not preclude reapplication at a later date by a subsequent owner of the appurtenant property.

7. **UNPAID CHARGES:** In the event Permittee fails to pay annual permit administration fees or the District's cost for labor, materials, and supplies (after being billed by the District) that are incurred in correcting any deficiency hereunder, the District may add the unpaid charges for services rendered to the annual assessment levied upon the land owned by the Permittee within the District boundaries pursuant to Water Code Section 25806.

8. **LIABILITY:** Permittee shall assume entire responsibility for all activities and uses under this permit and shall hold the District free and harmless from any and all expense, cost, or liability in connection with, or resulting from the exercise of this permit including, but not limited to, property damage, personal injury, wrongful death, chemical treatment of water, cleaning operations of District ditches, any erosion of upstream random, silting of said reservoir area, and any, or all aquatic life, including fish life within said reservoir. Permittee shall at all times maintain insurance naming the District and any concessionaire as additional insureds, in such amounts and types as set forth in the District Dock Encroachment Regulations.

9. **PUBLIC ACCESS REQUIREMENTS:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. **COVENANTS:** The covenants, provisions, terms and conditions contained in this permit shall bind and burden the successors and assigns of Permittee as well as benefiting the successors and assigns of District.

11. **ISSUANCE:** This permit is issued under the Rules and Regulations Governing Physical Encroachments to District Facilities and is subject to the rules and regulations stated therein, including provisions for revocation.

THE UNDERSIGNED, BEING THE LEGAL OWNERS OF THE SUBJECT PROPERTY OF THIS PERMIT, HAVE READ ALL PROVISIONS GOVERNING THIS ENCROACHMENT PERMIT AND BY SIGNING AGREE TO COMPLY WITH ALL PROVISIONS INCLUDED WITHIN.

Name \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Date \_\_\_\_\_









## APPENDIX A

**2015**  
INDEX TO SCHEDULES

<u>PAGE NO</u>	<u>SCHEDULE NO</u>	<u>DESCRIPTION</u>
1 & 2	-	Index to schedules.
3 & 4	4-A	Treated water system, standby charges and connection fees.
5	4-B	Miscellaneous meter service charges.
6	4-E & 4-F	Water rates covering treated water meeting State Health standards, utilized for noncommercial and commercial purposes.
7	4-G	Water rates covering Auburn Greens residential condominium units.
8	4-H	Tank or temporary construction water service.
9	4-I	Off-rate charges for Treated Water Systems.
10	5-B	Raw water service outlet, installation charges.
11	5-C	Raw water service outlet, periodic charges.
12	5-D	Water rates for raw water utilized inside District on an annual basis.
13	5-F	Water rates for raw water utilized in Smartville on an annual basis through a metered connection.
14	5-G & 5-H	Water rates for seasonal raw water utilized inside District and seasonal raw water utilized outside District
15	5-I	Water rates for raw water utilized on a demand basis.
15	5-J	Water rates for raw water utilized during fall season.
15	5-K	Water rates for intermittent flow raw water.
16	5-L	Energy pumping cost for raw water served from Magnolia #3 Pump System.
116	5-M	Energy pumping cost for raw water served from Edgewood Pump System.
17	5-R	Municipal Water Rates, inside & outside district.

## INDEX TO SCHEDULES (continued)

<u>PAGE NO</u>	<u>SCHEDULE NO</u>	<u>DESCRIPTION</u>
18	6-A	Miscellaneous charges, rendering and payments of bills.
18	7-A	Special service call.
19	8-A	Charges related to public fire hydrants on treated water systems.
20	8-B	Private fire services on treated water systems, installation charges.
21	8-C	Private fire service, with detector check, on treated water systems, bimonthly charges.
21	8-D	Private fire service, with double detector check on treated water systems, bimonthly charges.
22 & 23	9-A	Backflow prevention requirements.
24	9-B	Backflow prevention devices, installation charges.
25	9-C	Backflow prevention devices, bimonthly charges for double check valve assembly.
25	9-D	Backflow prevention devices, bimonthly charges for reduced pressure principle device.
26	10-A	District constructed mainline extensions, installation charges.
27	10-B	TSL Treated Water Main Contributions
28	12-A	Penalties for unauthorized taking of water.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-A  
EFFECTIVE APRIL 1, 2015

**TREATED WATER SYSTEM  
STANDBY CHARGES AND CONNECTION FEES**

---

**STANDBY CHARGES** - \$6.00 per month for each parcel.

**CONNECTION FEES** 1/ Single family residence, commercial, industrial, and municipal.

**\*\*DROP-IN TO AN EXISTING METER BOX AND WATER SERVICE LATERAL\*\***

----- Capacity Charge -----

<u>Meter Size</u>	<u>Max Rated Capacity</u>	<u>Installation Charge</u>	<u>Parcels in District Prior to 3/1/07</u>	<u>Parcels Annexed to District after 3/1/07</u>
5/8"	20 gpm	581.00	\$9,516.00	\$12,762.00
3/4"	30 gpm	614.00	13,703.00	18,377.00
1"	50 gpm	654.00	24,360.00	32,672.00
1 1/2"	100 gpm	893.00	54,810.00	73,511.00
2"	160 gpm	1,071.00	97,440.00	130,686.00
Over 2"			DETERMINED BY DISTRICT	

**\*\*INSTALLATION REQUIRING TAP TO WATER MAIN\*\***

----- Capacity Charge -----

<u>Meter Size</u>	<u>Max Rated Capacity</u>	<u>Installation Charge</u>	<u>Parcels in District Prior to 3/1/07</u>	<u>Parcels Annexed to District after 3/1/07</u>
5/8"	20 gpm	\$1,553.00	\$9,516.00	\$12,762.00
3/4"	30 gpm	1,589.00	13,703.00	18,377.00
1"	50 gpm	1,636.00	24,360.00	32,672.00
1 1/2"	100 gpm	2,831.00	54,810.00	73,511.00
2"	160 gpm	4,025.00	97,440.00	130,686.00
Over 2"			DETERMINED BY DISTRICT	

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-A  
EFFECTIVE JANUARY 1, 2015

**TREATED WATER SYSTEM CONNECTION FEES – CONTINUED**

**MULTI-UNIT 2/** RESIDENTIAL DEVELOPMENT for which a master meter is required.

<u>Meter Size</u>	<u>Connection Fees</u>
5/8"	\$ 581.00 + unit charge/unit
3/4"	614.00 + unit charge/unit
1"	654.00 + unit charge/unit
1 1/2"	893.00 + unit charge/unit
2"	1,071.00 + unit charge/unit
over 2	Actual cost of installation plus unit charge/unit

<u>Type Development</u>	<u>Unit</u>	<u>Unit charge</u>
Mobile Home Park	Pad	\$ 3,325.00
Apartments	Dwelling	4,658.00
Senior Apartments 3/	Dwelling	1,981.00
Motels, Hotels	Dwelling	2,178.00
Campgrounds	Pad	3,680.00
Hospitals	Licensed Bed	3,567.00
Convalescent Hospitals & Resthomes:		
Skilled nursing	Licensed Bed	2,109.00
Board and care	Licensed Bed	1,135.00

- 1/ Varies with type of development
- 2/ Multi unit is defined as three or more.
- 3/ Proof must be provided that apartments are being developed under county ordinances relating to senior apartments or senior independent living centers.

**ABANDONMENT OF AN EXISTING SERVICE**

Customer requesting new meter installation at a location other than existing box and curb stop will be charged an abandonment fee of \$343.05. Existing box and curb stop will be removed and the area backfilled. Customer will be responsible for re-vegetation or landscaping.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-B  
EFFECTIVE FEBRUARY 11, 2015

**MISCELLANEOUS METER SERVICE CHARGES**

---

**TESTING**

METER SIZE

DEPOSIT

5/8" TO 3/4"  
1" AND ABOVE

\$30.00  
DETERMINED BY DISTRICT

**UPSIZING/DOWNSIZING**

An extra \$65.00 will be charged to cover labor costs as discussed in Sections 4.07.01 and 4.07.02.

**RELOCATING**

Meter relocations meeting the conditions set forth in Section 4.07.03 (a) (not requiring a new tap to the water main nor other extra ordinary effort) will be accomplished at the rate indicated under "Drop-In to an Existing Meter Box" schedule.

Meter relocations meeting the conditions set forth in Section 4.07.03 (b) (requiring a new tap on the water main) will be accomplished at the rate indicated under "Installation Requiring Tap to Water Main" schedule.

Customer requesting meter relocation will be charged an abandonment fee of \$343.05. The existing box and curb stop will be removed and the area backfilled. Customer will be responsible for re-vegetation or landscaping.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-EI & 4-FI  
EFFECTIVE JANUARY 1, 2015

**NONCOMMERCIAL / COMMERCIAL, INSIDE DISTRICT**

---

Charges for treated water meeting state health standards, delivered through a metered connection.

Service Size:	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Minimum Bi-Monthly Rate:	41.69	62.54	104.23	208.47	333.55	625.40	1,042.34	2,084.68	3,335.50

USAGE RATES: (\$ per hundred cubic feet (hcf) per billing period)

First	10 hcf per billing period	1.72 per hcf
Over	10 hcf per billing period	2.22 per hcf

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SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-EO & 4-FO  
EFFECTIVE JANUARY 1, 2015

**NONCOMMERCIAL / COMMERCIAL, OUTSIDE DISTRICT**

---

Charges for treated water meeting state health standards, delivered through a metered connection.

Service Size:	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Minimum Bi-Monthly Rate:	52.11	78.18	137.70	260.59	416.94	781.75	1,302.93	2,605.85	4,169.36

USAGE RATES: (\$ per hundred cubic feet (hcf) per billing period)

First	10 hcf per billing period	2.15 per hcf
Over	10 hcf per billing period	2.79 per hcf



SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-G  
EFFECTIVE JANUARY 1, 2015

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**RESIDENTIAL CONDOMINIUM, INSIDE DISTRICT**

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Charges for treated water meeting state health standards, delivered through a metered connection to existing Auburn Greens residential condominium units.

MINIMUM BI-MONTHLY RATE:       \$41.69

USAGE RATES: \*\* (\$ per hundred cubic feet (hcf) per billing period)

First	* 40 hcf per billing period	.43 per hcf
Over	40 hcf per billing period	.56 per hcf

\*10 hcf per unit

\*\* 1/4 of non-commercial usage rate

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-H  
EFFECTIVE JANUARY 1, 2014

**TANK OR TEMPORARY CONSTRUCTION WATER SERVICE  
FROM AN OPEN CANAL AND/OR FIRE HYDRANT**

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**GENERAL**

- 1) The application charge of \$100.00 is nonrefundable.
- 2) The minimum monthly charge shall be \$85.00.
- 3) Applicants who do not turn in tank tally sheets and/or meter readings by the 10th of each month, for the previous month's usage, will be billed at two (2) times the minimum monthly charge or the estimated usage. Billing under this schedule shall not create a credit for future delivery of water.
- 4) This class of water is not to be used for domestic purposes except in an emergency situation as determined by Nevada Irrigation District.

**TREATED WATER**

- 1) Application will automatically be terminated at end of calendar year.
- 2) A deposit of \$900.00 will be collected for the meter and wrench assembly and is refundable after the water used is paid in full, the hydrant has been inspected to determine that no damage has occurred, the meter and fire hydrant wrench have been returned undamaged and all damages to District facilities have been paid in full. Any default on the conditions of the application will result in forfeiture of the deposit.
- 3) Treated water will be billed at 2.5 times the rate shown in Schedule 4-EI.
- 4) Meter readings shall be turned into the District office at the first of each month.
- 5) The minimum monthly charge or the monthly billing for water usage, whichever is greater, will be levied until the meter is returned.
- 6) Applicant will be responsible for backflow prevention as shown in Schedule 9-A.

**RAW WATER**

- 1) Application will terminate at the end of each year unless requested by customer by Dec 10.
- 2) Raw water will be billed at twice the rate shown in Schedule 5-F.
- 3) Tank tally sheets shall be turned into the District office at the first of each month.
- 4) The minimum monthly charge or the monthly billing for water usage, whichever is greater, will be levied until District is advised in writing to close out the account.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 4-I  
EFFECTIVE JANUARY 1, 2015

**BI-MONTHLY OFF RATE CHARGES, TREATED WATER SYSTEM**

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4EI & 4FI RESIDENTIAL & COMMERCIAL - INSIDE DISTRICT

<u>RATE SCH</u>	<u>MTR SIZE</u>	<u>*OFF RATE</u>
1	5/8"	\$ 31.27
2	3/4"	46.91
3	1"	78.17
4	1 1/2"	156.35
5	2"	250.16
6	3"	469.05
7	4"	781.76
8	6"	1,563.51
9	8"	2,501.62

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4EO & 4FO RESIDENTIAL & COMMERCIAL – OUTSIDE DISTRICT

1	5/8"	39.08
2	3/4"	58.64
3	1"	103.28
4	1 1/2"	195.44
5	2"	312.71
6	3"	586.31
7	4"	977.20
8	6"	1,954.39
9	8"	3,127.02
4-G	1"	31.27*
5-FO	all sizes	3.56

\*plus usage

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-B  
EFFECTIVE JANUARY 1, 2015

**RAW WATER SERVICE OUTLET INSTALLATION**

All raw water service connections will be made after proper application and payment is made to the District in accordance with the attached schedule for the requested service.

**CANAL SERVICE BOX**

<u>Service Range</u>	<u>Basic Installation charge*</u>	<u>Excess Pipe Length Charge* (Per Foot)</u>	
1/2 to 25 miners inches	\$ 1,119.00	2 Inch	\$ 5.40
<i>Relocation or upsize cost</i>	<i>690.00</i>	3 Inch	6.20
26 to 40 miners inches**	1,850.00	4 Inch	6.80
<i>Relocation cost</i>	<i>1,051.00</i>	6 Inch	9.70
Over 40 miners inches	Actual Cost	8 Inch	17.50

\*Where the outlet on a canal service exceeds 20 feet in length, the applicant is charged at the indicated rate per foot for all excess footage in addition to the basic installation charge.

\*\*The District reserves the right to utilize a different type of measuring device on these size services at a cost to be determined by the District.

**ORIFICED SERVICE IN RAW WATER PIPELINE OR MANIFOLD**

<u>Service Range</u>	<u>Basic Installation Charge*</u>
Amount of water available will depend on manifold pressure, using 2 inch meter flanges or Dole flow control and 2 inch gate valves and air release.	\$1,036.00
Any service requiring pipe size over 2"	Actual Cost

\*In those instances where the District determines that a screening device is needed in the orificed service to prevent excessive clogging, such screening device shall be the sole cost of the customer (District Regulation 5.04.02 b).

**NOTE**

All raw water service connections for outside District lands are subject to additional charges per District Regulation 6.08.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-C  
EFFECTIVE JANUARY 1, 2010

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**RAW WATER SERVICE OUTLET PERIODIC CHARGES**

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ACTIVE ACCOUNT (With Purchase of Water) - \$48.00 per year charge for each outlet in excess of one.

ACCOUNT CHARGE (Without Purchase of Water) - \$72.00 annual charge on all inactive raw water accounts, plus a \$66.00 annual charge for each additional outlet.

ROTATION - \$102.45 per season per outlet.

**NOTE**

Add 25% to all charges above for accounts serving lands outside the District (Amount rounded to the nearest dollar.)

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICTSCHEDULE 5-D  
EFFECTIVE JANUARY 1, 2015**ANNUAL RAW WATER SERVICE, INSIDE DISTRICT**

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Charges for raw (untreated) water sold for irrigation use on an annual basis and billed bimonthly.

MINERS INCHES:	1/4	1/2	1	1½	2	5
BIMONTHLY RATE:	174.57	196.98	216.91	236.83	256.76	600.47

**NOTE**

Water served pursuant to this schedule is untreated; which, if consumed or used for culinary purposes, could cause serious illness. If the water is so used, it is used at the customer's own risk.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-F  
EFFECTIVE JANUARY 1, 2015

**ANNUAL RAW WATER SERVICE, OUTSIDE DISTRICT  
SMARTSVILLE ONLY**

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Charges for raw (untreated) water sold for irrigation use through a metered connection.

SERVICE SIZE:	5/8	3/4	1	1½	2	3	4
MINIMUM BI-MONTHLY RATE:	3.56	3.56	3.56	3.56	3.56	3.56	3.56

USAGE RATES:      \$1.57 per hundred cubic feet (hcf) per billing period

**NOTE**

Water served pursuant to this schedule is untreated; which, if consumed or used for culinary purposes, could cause serious illness. If the water is so used, it is used at the customer's own risk.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-G  
EFFECTIVE JANUARY 1, 2015

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**INSIDE DISTRICT SEASONAL IRRIGATION WATER**

---

SUMMER SERVICE

\$405.73 fixed +  
\$239.10 per MI

WINTER SERVICE

\$507.17 fixed +  
\$298.88 per MI

- Summer service to begin on or about April 15 through October 14
- Winter service to begin on or about October 15 through April 14
- Winter service will be charged at 1.25 times the summer service rate.
- Raw water outlet service outlet periodic charges:
  - Active account (with purchase of water: \$48.00 per year charge for each outlet in excess of one
  - Account charge (without purchase of water): \$72.00 annual charge on all inactive raw water accounts, plus an additional \$72.00 charge for each additional outlet
  - Rotation: \$102.45 per season, per outlet

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-H  
EFFECTIVE JANUARY 1, 2015

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**OUTSIDE DISTRICT SURPLUS IRRIGATION WATER**

---

SUMMER SERVICE

\$507.17 fixed +  
\$298.88 per MI

WINTER SERVICE

\$633.95 fixed +  
\$373.60 per MI

- Summer service to begin on or about April 15 through October 14
- Winter service to begin on or about October 15 through April 14
- Winter service will be charged at 1.25 times the summer service rate.
- Raw water outlet service outlet periodic charges:
  - Active account (with purchase of water: \$60.00 per year charge for each outlet in excess of one
  - Account charge (without purchase of water): \$90.00 annual charge on all inactive raw water accounts, plus an additional \$90.00 charge for each additional outlet



SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-I  
EFFECTIVE JANUARY 1, 2015

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**DEMAND WATER**

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When available, Demand Irrigation Water may be purchased at rates equal to the following factors, times the normal Irrigation Water rate:

<b>DEMAND</b> (in days)	10	20	30	40	50	60	70	80	90	100
<b>RATE FACTOR</b>	.20	.35	.50	.65	.75	.80	.85	.90	.95	1.00

Minimum Charge: \$225.69 (.35 x 1 M.I. summer seasonal irrigation water rate)

Duration must be established upon application. All charges for demand service will be collected in advance of the start of delivery.

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SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-J  
EFFECTIVE JANUARY 1, 2015

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**FALL/STOCK WATER**

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AVAILABILITY: October 15 to December 1 to regular irrigation water customers in quantities up to the amount of the seasonal purchase

**RATE:** \$1.53 Per M.I. day (10 M.I. seasonal rate divided by 1830 M.I.D.)

**MINIMUM CHARGE:** \$225.69 (.35 X 1 M.I. Summer Seasonal Irrigation Water Rate)

All charges for fall/stock water service will be collected in advance of delivery.

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SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-K  
EFFECTIVE JANUARY 1, 2015

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**RAW INTERMITTENT FLOW IRRIGATION WATER**

---

SEASON: April 15 to October 14  
MINIMUM SALE: \$141.30

RATE per acre foot season: \$21.09  
Outside District shall be 1.25% higher

**Definition:** Water belonging to District which cannot be supplemented by an auxiliary supply and in District's opinion cannot be considered a firm supply.

**Determining Water Use:** Sales of return intermittent flow irrigation water utilized by property owners shall be established in acre feet by District through pump ratings, sprinkler flow, actual diversions, acreage irrigated or any combination of the above methods as may be deemed appropriate to determine the amount of water to be used.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-L  
EFFECTIVE JANUARY 1, 2014

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**ENERGY PUMPING COST – MAGNOLIA #3**

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Energy Pumping Cost for irrigation (raw) water served from Magnolia #3 Pump System

Cost per M.I. per season: \$288.88

Bimonthly cost for customers on continuous service:

MINERS INCHES:	1/4	1/2	1	1½	2
BI-MONTHLY RATE:	24.08	48.15	72.22	96.29	120.37

Charge will be adjusted, after the end of irrigation season, based on actual water pumped by the District and current year pumping costs.

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SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-M  
EFFECTIVE JANUARY 1, 2014

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**ENERGY PUMPING COST – EDGEWOOD**

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Energy Pumping Cost for irrigation (raw) water served from Edgewood Pumped System

Cost per M.I. per season: \$70.66

Bi-monthly cost for customers on continuous service:

MINERS INCHES:	1/4	1/2	1	1½	2
BI-MONTHLY RATE:	5.90	11.79	17.69	23.58	29.47

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 5-R  
EFFECTIVE JANUARY 1, 2015

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**MUNICIPAL WATER RATES**

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**INSIDE DISTRICT**

Treated Water: \$483.52 per acre foot

Raw Water:

Placer \$210.89 per acre foot  
Plus \$405.73 fixed fee

**OUTSIDE DISTRICT**

Treated Water:

City of Grass Valley (Alta Hill) \$604.40 per acre foot

City of Grass Valley @ Broadview Heights  
6" Meter with Double Check Valve \$1,347.93 min per month  
Plus \$604.40 per acre foot

Raw Water

\$263.62 per acre foot

City of Grass Valley Plus \$507.16 fixed fee  
City of Nevada City Plus \$507.16 fixed fee

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 6-A  
EFFECTIVE See below

**MISCELLANEOUS CHARGES  
RENDERING AND PAYMENT OF BILLS**

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Duplicate of Water Statement (per billing)	\$ 2.00 (eff 9/26/84)
Turn off Notification Fee (Inside District)	10.00 (eff 9/26/84)
Turn off Notification Fee (Outside District)	12.50 (eff 9/26/84)
Outside District Security Deposit	50.00 (eff 9/26/84)
Return Check Fee	25.00 (eff 2/11/15)
Public Utility Easement Abandonment	50.00 (eff 1/01/93)
Water Availability Letter	50.00 (eff 1/01/94)
Variance Request	175.00 (eff 1/01/94)
Photocopies, per page	0.10 (eff 2/11/15)
Records on Compact Disc (plus postage if applicable)	5.00 (eff 2/11/15)
Encroachment Permit - County	190.00 (eff 7/01/07)
State	0.00 (eff 1/01/12)*

\*Need permit only. NID is local agency and exempt from fees

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SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 7-A  
EFFECTIVE FEBRUARY 11, 2015

**SPECIAL SERVICE CALL**

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Special Service Call fee inside District:	\$ 65.00
Special Service Call fee after normal working hours:	\$ 150.00
Special Service Call fee outside District:	\$ 81.00
Special Service Call fee after normal working hours Outside District:	\$188.00

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 8-A  
EFFECTIVE JANUARY 1, 2015

**PUBLIC FIRE HYDRANTS ON TREATED WATER SYSTEMS**

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HYDRANT INSTALLATION (1)	
Concurrently with New Construction	\$6,147.00 (2)
Installed on Existing Main	8,462.00 (2)
Plus lateral charge for each foot in excess of 10 feet	51.00
HYDRANT REMOVAL AND DISCONTINUANCE OF SERVICE	1,356.00
SALVAGE CREDIT ON FIRE HYDRANT RELOCATION	402.00

- (1) Any condition which in the opinion of the District will result in an estimated installation cost of more than twenty-five percent above those charges shown in this schedule will be installed on an actual cost basis. Example conditions include connections to a water main larger than 8 inch, connection to a main located deeper than 5 feet below surface, installation in concrete, pavement, or rock.
- (2) The District will add to the basic hydrant installation fee any estimated costs related to encroachment permits including associated inspection charges as well as those costs related to any required right of ways.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 8-B  
EFFECTIVE JANUARY 1, 2015

**PRIVATE FIRE SERVICE – INSTALLATION CHARGES 1/**

The District will estimate all installation costs not associated with the vault and add this amount to the vault costs indicated below. The final cost to the applicant will be the summation of these two installation costs.

**VAULT INSTALLATION 2/**

SIZE	DETECTOR CHECK	DOUBLE DETECTOR CHECK
2"	\$ N/A	\$ N/A
3"	N/A	12,017.00
4"	10,698.00	13,171.00
6"	11,047.00	14,428.00
8"	12,177.00	19,507.00
10"		23,179.00

- 1/ Vault installation includes all piping and appurtenances located within the vault, as well as the meter box.

Any condition which, in the opinion of the District, will result in an estimated vault installation cost of more than twenty five percent above those charges shown in this schedule will be installed on an estimated cost basis.

Installations requiring a road boring and jacking will be completed on a time and material basis. A deposit, based on the District's anticipated maximum cost will be due from the applicant prior to installation. The final cost to the applicant will not exceed the deposit.

- 2/ A detector check is installed unless backflow protection is required, as discussed in Section 9 of the Regulations. A double detector check is installed where backflow protection is needed.

The District will add to the basic vault installation fee any estimated costs related to encroachment permits including associated inspection charges as well as those related to any required right of ways.

**NOTE:**

A \$100.00 fee will be collected at the time an application for a private fire service is submitted to the District. This fee will compensate the District for time spent in estimating the installation cost. The fee will be waived if applicant, pursuant to section 8.05.02 of these Regulations, utilizes a private contractor to install the service and does not request an estimate.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 8-C  
EFFECTIVE JANUARY 1, 2015

**PRIVATE FIRE SERVICE - BI-MONTHLY CHARGES**

<u>SIZE</u>	<u>DETECTOR CHECK 1/</u>	
1"	\$ 5.80	
2"	-	Usage is charged at double the prevailing 4EI rate schedule
3"	-	
4"	34.00	
6"	36.20	
8"	40.10	

1/ These charges will also apply to all private services which are substandard.

NOTE: Add 25% to all charges above for accounts serving lands outside the District.

SCHEDULE OF RATE AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 8-D  
EFFECTIVE JANUARY 1, 2015

**PRIVATE FIRE SERVICE - BI-MONTHLY CHARGES**

<u>SIZE</u>	<u>DOUBLE DETECTOR CHECK</u>	
2"	\$ 39.90	Usage is charged at double the prevailing 4EI rate schedule
3"	42.90	
4"	44.00	
6"	51.10	
8"	77.90	
10"	101.40	

NOTE: Add 25% to all charges above for accounts serving lands outside the District.

SCHEDULE OF RATE AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-A  
EFFECTIVE: JANUARY 1, 2006

**BACKFLOW PREVENTION REQUIREMENTS**

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Minimum requirements for backflow prevention devices for various types of potable water users are listed below. These requirements have been determined based on District and industry-wide experience of the probability of backflow occurring, taking into consideration such factors as the degree of hazard and complexity of piping associated with various types of District water customers.

The District reserves the right to install a more stringent device than listed if, in its sole judgement, the particular circumstances of that water user requires a higher degree of backflow protection. All meters serving the same parcel will be subject to the highest degree of backflow protection appropriate for that parcel. The District will determine the need for and the type of device for all classes of services not listed below.

Requirements Abbreviations

AG - Air gap separation  
RP - Reduced pressure principle device  
DC - Double check valve assembly  
DCD - Double check detector assembly

WATER USE

REQUIREMENTS

1. Aircraft and missile plants	RP
2. Automotive plants	RP
3. Beauty Salons	DC
4. Board and care facilities, skilled nursing facilities	DC
5. Bottling plants	DC
6. Breweries	DC
7. Buildings – commercial/industrial multi-story over 50' in elevation above street level to ground floor	DC
8. Canneries, packing houses, and reductions plants	RP
9. Car wash	RP
10. Chemical processing or storage facilities	RP
11. Chemical treated potable water system	DC
12. Dairies and cold storage plants	DC
13. Dye works	RP
14. Film processing laboratories	RP
15. Fire systems – Class 3, 4, and 6, as defined in California Department of Health Services Manual of Cross Connection Control	DCD
16. Fire systems – Class 5	AG or RP
17. Food processing plants	DC
18. Fertilizer processing plants	RP
19. Hospitals, sanitariums	RP
20. Irrigation services served from treated water mains	DC
21. Laboratories	RP



SCHEDULE OF RATE AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-A  
EFFECTIVE: JANUARY 1, 2006

**BACKFLOW PREVENTION REQUIREMENTS (continued)**

<u>WATER USE</u>	<u>REQUIREMENTS</u>
22. Laundries, commercial	DC
23. Medical/dental buildings, clinics or veterinary clinics	RP
24. Metal manufacturing, cleaning, processing and fabricating plants	RP
25. Mobile home parks	DC
26. Mortuaries, morgues, or autopsy facilities	RP
27. Oil and gas production, storage or transmission properties	RP
28. Paper products manufacturing plants	RP
29. Plating operations	RP
30. Premises with piped auxiliary water supplies	DC
31. Pumped sewage, sewage pumping station and/or treatment plants. (Excluding individual premises)	RP
32. Radio active materials or substances	RP
33. Restricted classified or closed facilities	RP
34. Restaurants with automatic dishwashers or steam tables	DC
35. Sand, gravel, cement and ready mix plants	DC
36. Secondary schools and colleges	DC
37. Tank or Construction Water	AG or RP*
(*Customer maintained & certified; District inspected)	

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-B  
EFFECTIVE JANUARY 1, 2015

**BACKFLOW PREVENTION DEVICE - INSTALLATION CHARGES**

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<u>ASSEMBLY SIZE</u>	<u>DCV 1/</u>	<u>RP 2/</u>
3/4"	\$ 623.00	\$ 1,061.00
1"	629.00	1,186.00
1 1/2"	1,001.00	1,938.00
2"	1,037.00	2,481.00
3"	3,789.00	8,233.00
4"	10,640.00	10,470.00
6"	13,889.00	14,354.00
8"	20,057.00	18,131.00
10" And up	Actual cost	Actual cost

1/ Double Check Valve Assembly

2/ Reduced Pressure Principle Device

Note: Charges covering double detector checks which are utilized on high risk private fire services can be found in Schedule 8-B.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-C  
EFFECTIVE JANUARY 1, 2015

**BACKFLOW PREVENTION DEVICE – BI-MONTHLY CHARGE**

<u>ASSEMBLY SIZE</u>	INSIDE DISTRICT <u>DCV 1/</u>	OUTSIDE DISTRICT <u>DCV 1/</u>
3/4"	\$ 12.90	\$ 16.10
1"	13.20	16.50
1 1/2"	14.20	17.80
2"	14.70	18.40
3"	41.50	51.90
4"	48.40	60.50
6"	76.30	95.40
8" and up	98.50	123.10

1/ Double check valve assembly

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 9-D  
EFFECTIVE JANUARY 1, 2015

**BACKFLOW PREVENTION DEVICE - BI-MONTHLY CHARGE**

<u>ASSEMBLY SIZE</u>	INSIDE DISTRICT <u>RP 1/</u>	OUTSIDE DISTRICT <u>RP 1/</u>
3/4"	\$ 14.70	18.40
1"	16.70	20.90
1 1/2"	22.20	27.80
2"	22.40	28.00
3"	47.30	59.10
4"	52.80	66.00
6"	72.00	90.00
8" and up	110.90	138.60

1/ Reduced pressure principle device

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 10-A  
EFFECTIVE JANUARY 1, 2015

**DISTRICT CONSTRUCTED MAINLINE EXTENSIONS**

The District will estimate all costs not included in the basic charge 1/ listed below and add this to the basic charge. The final cost to the applicant will be the summation of these two installation costs, however, unexpected costs associated with required right of ways or encroachment permits will be added to the total.4/

BASIC CHARGE 2/

SIZE	COST/FOOT	ADD ON FOR SHORT LENGTHS 3/
6"	\$ 94.30	\$26.80
8"	120.70	26.80
10"	150.80	26.80
12"	181.10	26.80

- 1/ Any condition which, in the opinion of the District, will result in an estimated costs of more than twenty-five percent of those charges shown in this Schedule, will be installed on an estimated cost basis. Pipe sizes in excess of twelve inches will be accomplished on an estimated cost basis.
- 2/ The basic charge includes all necessary pipe, air and vacuum valves, blowoffs, thrust block and engineering work. Not included in the basic charge are mainline valves, service settings, existing pipe tie-in, fire hydrant assemblies, right of way and all other items not specifically mentioned as covered under the basic charge.
- 3/ If total length of installation is less than 100 feet, add indicated amounts on to per-foot-costs; however, the cost as so determined will not exceed the cost of a 100-foot extension.
- 4/ The District will determine, prior to start of construction, if adequate funds have been provided in the estimated cost to cover right of way purchases, associated legal and court fees, as well as to cover requirements mandated in any encroachment permits the District must obtain from other public entities for the mainline extension. The developer will be required to pay any of these additional costs prior to start of construction.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICTSCHEDULE 10-B  
EFFECTIVE JANUARY 1, 2015**TREATED WATER DISTRIBUTION MAIN CHARGES FOR CALCULATING  
TEMPORARY SERVICE LOCATION TREATED WATER MAIN CONTRIBUTIONS**

---

Multiplier

\$105.50

The Treated Water Distribution Main (TWDM) Charge as shown herein will be determined by the District and revised or amended periodically to reflect updated estimates for the cost to provide and install distribution pipelines.

The administrative processing fee for the Temporary Service Location application shall be \$175.00.

The processing fee for the renewal of an Approved Temporary Service Location shall be \$90.00.

SCHEDULE OF RATES AND CHARGES  
BY NEVADA IRRIGATION DISTRICT

SCHEDULE 12-A  
EFFECTIVE SEPTEMBER 26, 1984

**PENALTIES FOR  
UNAUTHORIZED TAKING OF WATER**

---

<u>OFFENSE</u>	<u>PENALTY</u>
FIRST	\$250.00
SECOND	\$500.00

## **Appendix L: Sample Water Conservation Public Information and Outreach**

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NEVADA IRRIGATION DISTRICT  
1036 W MAIN STREET  
GRASS VALLEY CA 95945-5424  
(530) 273-6185

## WONDERING HOW YOU CAN REDUCE YOUR WATER USE?

\*\*\*\*\*Endorsement Line\*\*\*\*\*

1 SP manifest key line\*\*\*\*\*1 99999 S1D1



TURN OFF WATER WHEN  
BRUSHING TEETH OR  
SHAVING

*saves*  
**10 GALLONS**  
per person/day



WATER PLANTS EARLY IN  
THE AM

*saves*  
**25 GALLONS**  
each time you water

**EVERY PERSON SHOULD TARGET INDOOR WATER USE OF  
NO MORE THAN 55 GALLONS PER DAY.  
ON AVERAGE 60-75% OF TOTAL RESIDENTIAL USE IS OUTDOORS.**



### USE MULCH

There are many benefits using mulch in your landscape.



#### RETAIN MOISTURE

Less watering needed and  
grow healthier plants.



#### MODERATES TEMPERATURE

Cool soil in the summer and  
warm soil in the winter.



#### DECOMPOSES NUTRIENTS

Enrich soil and better soil  
quality.



#### DISCOURAGE WEEDS

Keep weeds away and  
reduce maintenance.



### FIX LEAKY TOILETS

*saves*  
**30-50 GALLONS**  
per day/toilet



### WASH ONLY FULL LOADS OF CLOTHES

*saves*  
**15-45 GALLONS**  
per load



### USE A BROOM TO CLEAN OUTDOOR AREAS

*saves*  
**8-18 GALLONS**  
per minute



### GET EFFICIENT



introduce drip  
irrigation



invest in a smart  
controller



water less frequently, but  
longer and close to plant roots



redirect downspouts to capture rainwater  
and direct it to garden areas



May 7, 2015

# Important 2015 Drought Update

Nevada Irrigation District is targeting a **36%** reduction in water usage as compared to the same time in **2013** and we are asking all customers to conserve. The Nevada Irrigation District Board of Directors has implemented portions of the Drought Contingency Plan. **Mandatory** outdoor water use restrictions are now in place and they include:

- 💧 **Limit watering to 2 days per week;**
- 💧 **No outdoor watering in the heat of the day, (10:00 a.m. to 6 p.m.);**
- 💧 **No watering during and 48 hours after rain;**
- 💧 **No outdoor watering that causes excess runoff;**
- 💧 **No washing down driveways and sidewalks, unless for health and safety;**
- 💧 **No washing a motor vehicle with a hose, unless the hose is fitted with a shutoff nozzle;**
- 💧 **No use of potable water in a fountain or decorative feature, unless the water is recirculated**

Below is your 2013, 2014 & 2015 consumption history as well as your reduction target for:

**TORREY PINES DRIVE, 10906**

All figures are in gallons

	2013	2014	2013 vs. 2014 % Difference	2015	36% Reduction Target
Jan / Feb	5236	4488	-14%	5236	3351
Mar / Apr	4488	3740	-17%	2992	2872
May / Jun	2992	8228	175%	-	1915
July / Aug	4488	3740	-17%	-	2872
Sep / Oct	4488	5236	17%	-	2872
Nov / Dec	2992	5236	75%	-	1915
TOTALS	24684	30668	24%	8228	15798

For more water conservation tips visit <http://nidwater.com> or <http://saveourwater.com/>

To report water waste please call **530-271-6799** or online at

**<http://nidwater.com/report-water-waste/>**

The state board has ruled that violations of the above regulations may be subject to fines of up to \$500





# How to Water & Irrigate

## How Long Do I Need to Water?

One of the easiest ways to save water is to make sure that you are not overwatering your lawn and plants. Most of us water more than we need to, which not only wastes water but ends up drowning our plants. Watering for fewer days for the appropriate amount of time will give you healthier plants and use less water.

Here are some general guidelines on how to make sure that you are watering the correct amount. For specific information on your landscape, this run time [calculator tool](#) by Rain Bird can help you design a specific plan for your landscape. Rain Bird's "[When and How Much to Water](#)" video may also help you figure out how much water is the right amount for your landscape.

1. Irrigation for lawn areas can be kept to three days in the summer with "run and soak" cycling of an irrigation valve/station.

- For example, Program A for sunny lawn areas, can have three start times, three minutes with 30-60 minutes between each run time.
- Be aware that sun exposure and slope of the lawn area are factors to consider in calculating the amount of time the irrigation runs. Shaded lawn does not need as much water.
- Ensure irrigation water does not result in runoff.

2. Mature shrubs can usually be limited to watering two days a week in the summer.

- Be aware that sun exposure and slope of the landscape areas are factors to consider in calculating the amount of time the water runs
- Check [Sunset's Plant Finder](#) to determine if your plants are high, medium, or low water use.
- Water in cycles (e.g. 5 minutes of run time with time in between to allow water to soak through to the plant's root zone). Run times will depend on the plant type.
- Watering with this technique encourages deep rooting by water percolating to depths of at least several inches into the soil for shrubs, deeper for trees.
- Ensure irrigation water does not result in runoff.

3. Once the root system is strong and deep enough, the plants will withstand more periods of no irrigation, particularly when the day length is shortened and the soil temperatures are cooler.

4. Annuals or water-loving plants can be efficiently irrigated with this method as long as they are rooted into the native soil. On new plantings, make sure the root ball is moist as well as the surrounding soil to encourage rooting beyond the original container size.





5. Apply 2-3" of mulch on any bare soil to keep soil temperatures cool.

## What is Drip Irrigation?

Drip irrigation is the slow, precise application of water directly to the plants' root. A drip irrigation, micro irrigation, system can be customized to meet your landscape's specific needs while maintaining an optimum moisture level for your plants, efficiently conserving water that might otherwise be lost.

## The Benefits of Drip Irrigation

Drip irrigation is an efficient and economical method of watering. Experts say that drip irrigation is at least 90 percent more efficient than other irrigation methods and reduces runoff and evaporation. Drip irrigation applies the water slowly where it is needed—at the plant's roots.

Commonly used in commercial nursery and agricultural operations, homeowners are beginning to take advantage of its uses and benefits.

Drip irrigation involves placing tubing with emitters on the ground alongside the plants. The emitters slowly drip water into the soil at the root zone. With this slow, appropriate direct application of water, plant health and growth is improved. In addition, drip irrigation:

- Prevents disease.
- Reduces weed growth.
- Saves time and water.
- Requires less work and maintenance.

## What Is a Smart Controller?

Automatic sprinkler systems are run by a controller. Just as technology has improved cell phones and other devices in our lives, so has technology changed residential sprinkler system controllers.

"Smart" controllers act like a thermostat for your sprinkler system—telling it when to turn on and off and using local weather conditions to create a personalized watering schedule that matches actual conditions at your house. Instead of requiring the homeowner to set a schedule, smart controllers use real-time weather information to create a watering schedule that better matches plants' water needs. The EPA estimates that a household that replaces a standard clock timer with smart controller can save nearly 8,800 gallons of water annually.





**FACT:** If every U.S. homeowner with an automatic sprinkler system installed and properly operated a smart controller, we would save roughly 120 billion gallons of water annually from not overwatering lawns and landscapes. That's equal to the annual household water needs of nearly 1.3 million average American homes.

## Getting Smart with Your Existing Controller

Even if you can't replace your existing controller with a new weather-based controller, you can still save water by getting smart with the one you have. Here are some tips:

- One easy way to cut down how much water you use outdoors is to learn how much water your landscaping actually needs in order to thrive. Overwatering is one of the most common mistakes people make. To understand how much water your landscaping really needs, learn more about evapotranspiration (ET) here. Simply put, you're better off watering less frequently, but for slightly longer periods of time.
- Water early in the morning or later in the evening when temperatures are cooler.
- Check your sprinkler system frequently and adjust sprinklers so only your lawn is watered and not the house, sidewalk, or street.
- Put a layer of mulch around trees and plants to reduce evaporation and keep the soil cool.
- Turn your system off when it rains.



**INDOORS** - Year-round tips for conserving water at home.



## TAKE A SHORTER SHOWER

*Reduce shower time to five minutes or less. Install low-flow showerheads.*



## WASH FULL LOADS

*Wash only full loads of clothes and dishes.*



## UPGRADE TO SAVE

*Upgrade to a water- and high-efficiency toilet and clothes washer.*



## TURN IT OFF

*Turn off the water while you brush your teeth, shave, or wash your face.*



## FIX LEAKS

*Check your household plumbing fixtures to find and repair leaks.*

Association of California Water Agencies, 910 K St #100, Sacramento, CA 95814



# FIX IT FOR GOOD

## #KEEPSAVINGCA

Save Our  
Water



**NID**

**FOR MORE INFO AND TIPS VISIT** [SaveOurWater.com](http://SaveOurWater.com)



# Permanently Reduce Your Use

**OUTDOORS** - Most of our water use goes towards watering our landscape. Reducing outdoors is the easiest way to save.



## WATER EARLY OR LATE

Water early in the morning or later in the evening when temperatures are cooler.



## BE WATER-EFFICIENT

Choose an irrigation system such as drip irrigation for your trees, shrubs and flowers.



## SKIP THE CAR WASH

Wash cars/boats with a bucket, sponge, and hose with self-closing nozzle.



## DON'T OVERWATER

Water deeply but less frequently to create healthier and stronger landscapes.



## RETHINK YOUR LAWN

Replace your grass with native landscaping.



## DON'T SPRAY

Use a broom to clean driveways, sidewalks and patios.



## MULCH IT

Put a layer of mulch around trees and plants to reduce evaporation and keep the soil cool.



## WATCH SPRINKLERS

Check your sprinkler system frequently and adjust sprinklers so only your lawn is watered.

For more information and tips visit [SaveOurWater.com](https://www.SaveOurWater.com)



## LOCAL & STATE



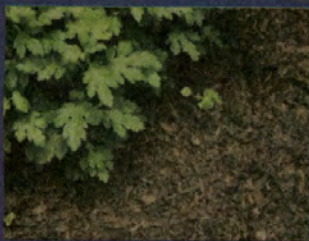
# NID

NEVADA IRRIGATION DISTRICT



### To Do List:

- ✓ Turn off sprinklers
- ✓ Mulch around trees
- ✓ Fix leaky toilet



# THANK YOU!

**Nevada Irrigation District  
customers reduced water  
consumption by 36% in  
June compared to the  
same time in 2013.**

**KEEP SAVING NEVADA COUNTY,  
EVERY DROP COUNTS!**

[nidwater.com](http://nidwater.com)



## Outdoor Recreation on the Middle Fork American River

In addition to water storage and hydroelectric power generation, Placer County Water Agency's Middle Fork American River Project offers a range of outdoor recreation activities including camping, boating, hiking, fishing, swimming, and world-class whitewater rafting and kayaking.

### Camping

Located on the western slope of the Sierra, the Middle Fork American River Project includes seven campgrounds, three group campgrounds, three picnic areas, four boat launch ramps and a vista point.

The majority of the recreational facilities are clustered around French Meadows and Hell Hole reservoirs; others are found near South Fork Long Canyon Creek and the Ralston Afterbay/Oxbow Reservoir. The two primary access roads are Mosquito Ridge Road from Foresthill and Eleven Pines Road from Georgetown.

This year's camping season opened in mid-May and is planned to continue through mid-September. Camping fees range from free to \$24.

### Fishing

Whether fly fishing for wild trout on the Middle Fork American River or casting for bass at French



The Middle Fork American River provides exciting Class III and IV whitewater adventures. Photo courtesy of Whitewater Excitement, Inc. of Auburn

Meadows Reservoir, the project provides for an adventurous day on the water.

The California Department of Fish & Wildlife regularly stocks both French Meadows and Hell Hole Reservoirs. Trout were planted in French Meadows in early April.

### Whitewater Rafting

A number of commercial outfitters offer whitewa-

### RECREATION RESOURCES

#### Campground Reservations:

[www.recreation.gov](http://www.recreation.gov) or (877) 444-6777.  
Some campgrounds are first come, first serve

#### Tahoe National Forest:

[www.fs.usda.gov/recmain/tahoe/recreation](http://www.fs.usda.gov/recmain/tahoe/recreation)

#### Eldorado National Forest:

[www.fs.usda.gov/recmain/eldorado/recreation](http://www.fs.usda.gov/recmain/eldorado/recreation)

#### DFG Fish Stocking at French Meadows,

Hell Hole: [nrm.dfg.ca.gov/FishPlants/](http://nrm.dfg.ca.gov/FishPlants/),  
(916) 351-0832

#### Placer Visitors Bureau:

[visitplacer.com](http://visitplacer.com), (530) 887-2111

#### Foresthill Divide Chamber of Commerce:

[foresthillchamber.org](http://foresthillchamber.org), (530) 367-2474

#### Auburn Chamber of Commerce:

[www.auburnchamber.net](http://www.auburnchamber.net), (530) 885- 5616

ter rafting on the Middle Fork American River below PCWA's Oxbow Powerhouse. Current plans call for PCWA to release water in the mornings, on weekends through Labor Day, and four days a week in July and August.



# water less

**Help Nevada Irrigation District Save 36%**

**Mandatory watering restrictions include:**

- Limit outdoor watering to 2 days or less per week
- No watering between 10 am and 6 pm
- Outdoor watering should not cause excess runoff

**Do Your Part, Be Water Smart**

For more information on ways to conserve visit: [www.nidwater.com](http://www.nidwater.com)

## CONSERVE WATER AND POWER!



**IRRIGATE THE SMART WAY!**

- Single RTL sensor controls multiple zones
- Loam, sand & clay settings
- Fifteen year battery life
- Optional features
- Wireless operation
- Water usage measurement
- Alarm on leak detection

## MAXRAY CONTROLS

P.O. Box 1058 • Alta, CA

# 530-389-8273

[www.sales@maxrayirrigation.com](http://www.sales@maxrayirrigation.com)



**NEVADA IRRIGATION DISTRICT**

1036 W MAIN STREET  
GRASS VALLEY, CA 95945-5424  
Billing Office: (530) 273-6185

**ACCOUNT STATEMENT**

Page 1 of 2

<b>ACCOUNT NUMBER</b> 16207-00	<b>BILLING PERIOD</b> FROM TO 05/12/15 07/21/15	
<b>CYCLE</b> 228 (O)	<b>APN</b> N22-180-35-000	
<b>BILL ISSUE DATE</b> 07/21/2015	<b>DUE DATE</b> 08/04/15	<b>AMOUNT DUE</b> \$0.00
<b>SERVICE NAME AND ADDRESS</b>		

93346AA21-Y-1  
4591 Y SP 0.416000

**TERMS OF PAYMENT ON REVERSE SIDE**

CONSUMPTION COMPARISON	METER SIZE	METER READINGS		HCF CONSUMED	TOTAL GALLONS CONSUMED	AVERAGE GALLONS USED PER DAY
		PREVIOUS	PRESENT			
USAGE / DAYS CURRENT 0 / 71	3/4 IN MTR	946	946	0	0	0

**IMPORTANT MESSAGE**

**\*\*Important Drought Information\*\*** NID is targeting a 36% reduction in water usage as compared to the same time in 2013 and we are asking all customers to conserve. Mandatory outdoor water use restrictions are in place and include: - Limit watering to 2 days or less per week - No outdoor watering in the heat of the day - No watering that causes excess runoff For more information visit our website <http://nidwater.com/drought-information>

**SERVICE DESCRIPTION****AMOUNT**

PREVIOUS BALANCE	\$126.96
PAYMENT 06/18/15	-\$189.50
BALANCE FORWARD	-\$62.54
3/4 IN MTR NON COM-IN	\$62.54
<b>TOTAL AMOUNT DUE</b>	<b>\$ 0.00</b>

PLEASE BRING THE ENTIRE BILL IF PAYING IN PERSON OR IF BY MAIL RETURN THE BOTTOM PORTION ONLY

**NEVADA IRRIGATION DISTRICT**

1036 W MAIN STREET  
GRASS VALLEY, CA 95945-5424  
Billing Office: (530) 273-6185

Please return this portion with your payment. Make your check payable to:  
**NEVADA IRRIGATION DISTRICT**

<b>ACCOUNT NUMBER</b> 16207-00	<b>AMOUNT DUE</b> \$0.00
<b>DUE DATE</b> 08/04/15	<b>AMOUNT ENCLOSED</b> \$

TO ENSURE PROPER CREDIT TO YOUR ACCOUNT PLEASE  
NOTE ACCOUNT NUMBER ON YOUR CHECK AND REMIT  
PAYMENT TO:



NEVADA IRRIGATION DISTRICT  
1036 W MAIN STREET  
GRASS VALLEY CA 95945-5424

**TERMS OF PAYMENT ON REVERSE SIDE**

NIA041315DA86101 - 93346AA21.Y.1.4591.1.2.0.000 - www.dataprose.com







# NID

NEVADA IRRIGATION DISTRICT

# Waterways

A NEWSLETTER TO THE CUSTOMERS OF THE NEVADA IRRIGATION DISTRICT

✓ **GOVERNOR'S CALL:**  
**REDUCE WATER USE BY 25%**  
**UNTIL THE DROUGHT ENDS**

**2015**  
**RECREATION**  
**SEASON UPDATE**  
PAGE 4 →



Volume 36 • Number 1 • Spring 2015

## Water Conservation Needed

### **NID Customers Urged to Reduce Use by 25%**

**NID customers are being asked to reduce water use by 25 percent (from baseline 2013 levels) as California endures a fourth year of drought.**

The 25 percent statewide mandate was announced Apr. 1 by Gov. Brown after snow surveys showed a state snowpack with just five percent of average water content. The governor's mandate strengthens the 20 percent cut he declared in 2014.

State Water Board officials, however, are working within a framework that could require 35 percent reductions in some areas of the state where household use has been higher than in others. NID may fall within the 35 percent requirement when the Water Board issues its final ruling, expected in early May.

NID's urban water users achieved a 16.4 percent conservation rate last year and are being urged to redouble their efforts this year.

*(Please See 25%, Page 2)*

## **Saving Water at Lake of the Pines**



**Lake of the Pines General Manager Fred Dean-Turner is pictured with NID Water Efficiency Technician Aurora Tipton at the LOP golf course where several water conservation measures are in place.**

**T**he folks at Lake of the Pines are setting a good example when it comes to saving water during California's ongoing drought.

LOP is one of NID's largest customers. The Lake of the Pines Association purchases up to 125 acre-feet of irrigation water per year for its lake. In addition, NID drinking water is used by nearly 2,000 LOP homes and community accounts.

General Manager Fred Dean-Turner and his Board of Directors have followed a very proactive approach to the water shortage over the past two years.

### **Voluntary Reductions**

In 2014, they voluntarily reduced their irrigation water purchase by 10 percent and are doing the same this year. With another 21 treated water accounts

*(Please See LOP Saves, Page 4)*



## 25 Percent - Continued From P. 1

The NID Board of Directors has declared a Stage III drought emergency for urban water users and a Stage II drought emergency for irrigation water users.

### THREE DAYS PER WEEK

The governor's restrictions place mandatory limits on urban outdoor irrigation. NID is calling for a maximum of three days per week during the hottest months, two days at other times and less or not at all when possible.

### CONTINUING 2014 RESTRICTIONS

- no washing down of sidewalks and driveways
- no washing of a vehicle with a hose, unless equipped with a shut-off nozzle
- no use of fountains or decorative water features, unless the water is part of a recirculating system

### NEW 2015 RESTRICTIONS

- no irrigation of turf or ornamental landscapes during and 48 hours after measurable precipitation
- restaurants and other food service establishments can serve water to customers only on request
- hotel and motel operators must provide guests with the option of having towels and linens laundered daily

### RULES FOR WATER SUPPLIERS

- must notify customers when they are aware of leaks that are within the customer's control
- must limit outdoor irrigation to specified days per week
- must report monthly to the State Water Board on the number of days to which irrigation has been limited, and describe compliance and enforcement efforts.

### 'Sierra Nada'

## Scant Snowpack Sets 94-Year Record

On April 1, NID snow surveyors measured just four percent of average water content in the mountain snowpack, the lowest April 1 measurement in 94 years of NID records.

The unusual lack of snow has generated a new nickname: "Sierra Nada."

The snowpack on five NID mountain snow courses at the 5800-7800-foot elevations held an average 1.5 inches of water. This compares to the Apr. 1 average of 33.7 inches. A year ago, the 2014 drought year showed an Apr. 1 water content of 12.1 inches. Until this year, the record low year had been 1934 with 9.1 inches.

The current water shortage is due more to the nature of the storms that moved through the region than the amount of precipitation. By Apr. 1, precipitation had reached 40.62 inches, or 69 percent of average. But most of this year's precipitation has fallen as rain rather than snow, meaning that as reservoirs are drawn down there is little or no snowpack runoff to refill them.

## Storage Cushion Against Continued Drought

NID continues to operate its water system very conservatively, keeping as much water as possible in reservoir storage. The district plans to carry over to 2016 a minimum of 75 percent of the historic 111,000 acre-foot average.

As of Apr. 1, storage in the district's 10 reservoirs was at 216,800 acre-feet, which is 82 percent of capacity and 120 percent of average for the date. However, with little snowpack, reservoir levels are expected to drop rapidly through the year.

## Drought Brings Water Awareness

The current four-year drought, which began in 2012, ranks among the most serious in recorded California history. By early April, most of the state was classified as being in either "severe" or "exceptional" drought.

A recent report by the State Department of Water Resources (DWR) chronicles the documented droughts in the state from the "extremely severe 1929-34 dry spell" that occurred when the state's population was less than six million people, to today's drought in a state of nearly 39 million. Other notable dry periods are 1976-77, generally regarded as the most significant drought of recent decades; and the longer but less severe dry period of 1987-92.

"The water years of 2012-14 stand as California's driest three consecutive years in terms of statewide precipitation," said Jeanine Jones, the DWR's deputy drought manager. "We do not know how long this drought will last. It's important for Californians to remember that drought is a part of life in California and we can learn from history as we try to emerge from each drought better prepared for the next."

## SaveOurWater.com. Your Guide to Saving Water

Save Our Water is a statewide program aimed at helping Californians reduce their everyday water use. Created in 2009 as a partnership between the Association of California Water Agencies (ACWA) and the California Department of Water Resources (DWR), the program offers ideas and inspiration for permanently reducing water use - regardless of whether California is in a drought. The program is reaching millions of Californians each year with its water-saving message and tips. Browse the Save Our Water website to uncover ideas on saving water indoors and out. We can all make a difference in California's water use by making simple changes to our daily habits.



## New Pipeline to Connect Banner and Cascade Shores

Nearly 1000 people who reside in Cascade Shores at Scotts Flat Reservoir are served by a small water treatment plant that relies on the 19-mile-long South Yuba Canal from Lake Spaulding as its sole supply.

That is changing this year as NID constructs more than three miles of new 12-inch water main lines to connect Cascade Shores to the modern Elizabeth L. George Water Treatment Plant on Banner Mountain.

NID project manager Tonia Tabucchi Herrera says the estimated \$2.5 million project will bring multiple benefits to Cascade Shores:

- The community will no longer be subject to water outages on the South Yuba Canal, such as those caused by snow and winds in recent years.
- The small and aging Cascade Shores Water Treatment Plant will be converted into a water storage facility and the system will be connected to NID's advanced E. George system, which uses both the Cascade and DS canals for source water.
- Cost effectiveness, increased system reliability, and higher service levels.

"This project continues the district's long-term effort to consolidate and regionalize our water treatment system," Tabucchi Herrera said.

The route for the new pipeline has been selected and



**The approved route for the new Banner-Cascade Shores water line project is shown on the above map.**

approved by the Board of Directors' Engineering Committee and environmental studies are scheduled for completion this spring.

The district plans to advertise for construction bids in late summer or early fall and construction could begin in fall or winter, weather permitting. Completion is anticipated in Summer 2016.

The project will include fire hydrants every 1000 feet or so on properties that are within and outside district boundaries. Lateral pipelines will make water available to nearby properties. Pending settlement of current water right issues, properties now outside of district boundaries could become eligible for water service.

## Irrigation Season 2015

### Managing Vegetation on the Canal System

Water is flowing in canals throughout NID service areas as the 2015 irrigation season opens. It is also a time when vegetation control activities are a priority.

NID crews are out working to keep district canals free of algae and aquatic weeds. Uncontrolled weed growth can clog canals, use valuable water supplies, and impact flows to customers.

Brian Morris, NID's assistant maintenance superintendent for vegetation control, said up to 400 miles of canals will be treated this irrigation season.

Control of terrestrial weeds along canal berms is also under way so that access is available to district personnel for maintenance and operation of the system.

For more information, see [www.nidwater.com](http://www.nidwater.com) and look under the Irrigation Water tab. There you'll find the Aquatic Weed Control Application Schedule for this year along with other helpful information on the program.

**[www.nidwater.com](http://www.nidwater.com)**

## Fixing Old Pipelines Without the Big Dig

Repair and replacement of old pipelines has always been a messy and often costly endeavor. Digging trenches through roads and private property, sometimes requiring new access where there had been none, obtaining easements and rights-of-way.

Now, NID is testing a new method of pipeline repair, one where expandable sleeves of "cured in place" liners are placed within existing pipelines, extending pipeline lives by many years.

Maintenance Director Brian Powell said the district's first installation of Insituform fabric liner was completed this spring on the 1500-foot-long Godwin Siphon (pipeline) on the Rattlesnake Canal, south of Alta Sierra.

The 18-inch liner was unfolded from a truck - 750 feet from each end of the pipeline - tied together in the middle, pressurized into place and steam-hardened.

Powell said the process, completed during a four-day canal outage, compares to a traditional replacement that may have taken more than a month. He said the method is favorable to landowners, less costly to the district, and could become part of NID's ongoing maintenance effort.



## LOP Saves - Continued From P. 1

for its various facilities, the association reduced its water bill last year from \$29,322 to \$20,820, a savings of nearly 31 percent.

"We're partners with NID, we're in this together, and we know the drought is serious," said Dean-Turner. "We're trying to do all we can. We want to lead by example."

Dean-Turner, a natural resources graduate of UC Berkeley, is taking advantage of all opportunities to spread the conservation message among LOP residents. His manager's report in the monthly Lake of the Pines News community newspaper has been focusing on water use. He and others have used Channel 7, the community television station; issued email messages and circulated brochures and other conservation materials.

Last year, LOP residents reduced their water use by a combined 11.5 percent. Dean-Turner said he anticipates greater savings this year.

### On the Golf Course

Golf courses in general and LOP in particular have been making significant advances in water use efficiency. The Lake of the Pines course is irrigated from the lake and continuing efforts are aimed at reducing water use on the course.

Dean-Turner said a three-year management plan is identifying sections of the golf course where less frequent irrigation is appropriate. New irrigation controllers, timers and software are leading to more efficient use. Nighttime irrigation with new high efficiency sprinklers has reduced usage further. Soil monitoring helps maximize effectiveness. Emphasis has been placed on drought-tolerant golf course landscaping.

"The people who live and work here are very appreciative of what we have," said Dean-Turner. "We feel it's very important to do the right thing."

## How to Contact Your Elected Directors

### DIVISION I - Nevada City Area

Nancy Weber, (530) 265-0424

Board Vice President, 2015

### DIVISION II - Grass Valley-Chicago Park

John Drew, (530) 272-5257

### DIVISION III - Lake of the Pines-Alta Sierra

Scott Miller, M.D., (530) 268-8778

Board President, 2015

### DIVISION IV - Lincoln-North Auburn

Jim Bachman, (916) 645-2059

### DIVISION V - Penn Valley-Lake Wildwood

Nick Wilcox, (530) 432-2171



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## Recreation Season Update

Full operations are scheduled this year at NID campgrounds at Rollins and Scotts Flat reservoirs. Recreational opportunities include camping, boating, swimming, fishing, sailing, kayaking, hiking and many related activities.

NID Recreation Manager Peggy Davidson said that because of the drought Scotts Flat is not expected to fill all the way this year but that boat ramps will be in water and all services will be in operation. Higher water levels with all services are planned at Rollins.

For information on Scotts Flat, see [www.scottsflat-lake.net](http://www.scottsflat-lake.net). For Orchard Springs at Rollins, see [www.orchardspringscampground.com](http://www.orchardspringscampground.com). For Peninsula, see [www.penresort.com](http://www.penresort.com). For Long Ravine, email [recdept@nidwater.com](mailto:recdept@nidwater.com).

## NID NEWS BRIEFS

### Water Efficiency Tech. Named

Aurora Tipton has been named as NID's Water Efficiency Technician, effective Mar. 23. In her new position, Tipton, who transfers from Customer Service, will be responsible for coordinating NID's water use efficiency and conservation programs.

### Water Quality Reports

Each spring, NID publishes water quality reports, titled Consumer Confidence Reports, that summarize the quality of water supplied to district customers through the previous calendar year. The 2014 reports are scheduled to be posted in May at [www.nidwater.com](http://www.nidwater.com). See Water Service/Treated Water.

### Building Near NID Facility?

If you are planning to build a bridge, culvert, gate, fence or other structure near a district canal, pipeline or easement, please check with NID first to obtain an encroachment permit. The permits are free and allow landowners to utilize their properties while protecting the safety and operation of the public water supply.

### ACWA Features NID Stewardship Project

A case study on NID's 2011 stewardship project to improve fish passage on Auburn Ravine in the City of Lincoln was featured in the March ACWA News, published by the Association of California Water Agencies. The project was recognized earlier as a 2012 finalist in ACWA's Clair A. Hill environmental awards program. See the story here: <http://www.acwa.com/news/digital-acwa-news/acwa-news-march-20-2015>

NID's QR Code  
Scan this QR Code with  
your smart phone for direct  
access to the NID website.



<http://www.nidwater.com>



# Water For Local Agriculture



SUPPORT YOUR  
LOCAL GROWERS

**NID is proud to have served four generations of the Bierwagen family, operators of Bierwagen's Donner Trail Fruit in Chicago Park. Fourth generation family farmer Chris Bierwagen values his water supply and continues to improve the efficiency of his irrigation systems. Chris' great-grandfather, Ludwig, pursued dryland farming when he settled here in 1901. The Bierwagen family has relied on NID water since Nevada County voters formed the district in 1921.**

**NID Water Efficiency Technician Lesa Osterhom looks on as Chris Bierwagen examines peach blossoms. NID provides assistance to local growers who want to conserve water.**

**Water for Our Community  
Please Use it Wisely**

NEVADA IRRIGATION DISTRICT • 1036 WEST MAIN ST., GRASS VALLEY, CA 95945  
(530) 273-6185 OR (800) 222-4102



**NID**

NEVADA IRRIGATION DISTRICT

[www.nidwater.com](http://www.nidwater.com)

# Please Don't Waste Water

☐

You may have a leak. Please correct as soon as possible.

Location: \_\_\_\_\_

☐

Re-direct your sprinklers to avoid water loss and waste.

☐

Water at night to avoid evaporative losses and save water.

☐

Other: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Nevada Irrigation District 530-273-6185

Visit [www.nidwater.com](http://www.nidwater.com) for more information on how  
to be water efficient and find ways to save water





# CONSERVE



Water Served Upon Request

Visit [www.nidwater.com](http://www.nidwater.com)  
to find ways to conserve water.





# Resource Conservation District



## *Irrigation Workshop for Canal Water Users*

*Thursday April 10  
9:00 am to Noon*

Come learn about irrigation system management and equipment at a Mandarin Orchard in Penryn. Farmers, homeowners, all users of Canal Water in Placer County are welcome and encouraged to attend!

### **SPEAKERS:**

#### **Mark White**

*Placer RCD Irrigation Specialist*

#### **Marc Denzin**

*Anderson's Sierra Pipe*

#### **Amanda Platt**

*WELL Program*

#### **Updates**

*from PCWA and NID*

### **TOPICS TO BE COVERED:**

- o understanding and evaluating various irrigation systems.
- o irrigation water management and "scheduling" - when, how often, and how long to irrigate.
- o consumptive use rates - how much water does your crop need?
- o understanding how much water different soil types hold.
- o filters - management and equipment options.
- o comparison of overhead and microspray irrigation systems in a mandarin orchard.
- o installation of drip irrigation system in new berry patch.
- o cost-share funding availability for irrigation practices.

### **REGISTRATION:**

Online: <http://x.co/45fYw>

Email: [elisa@placercountyr cd.org](mailto:elisa@placercountyr cd.org)

Phone: 530-885-3046 ext 118

**THERE IS NO COST TO YOU**





# NID

NEVADA IRRIGATION DISTRICT

# Waterways

A NEWSLETTER TO THE CUSTOMERS OF THE NEVADA IRRIGATION DISTRICT

**DROUGHT EMERGENCY  
DECLARATION POSSIBLE**

*...Story Below*

**Storm  
Response**

*...Page 4* →



Volume 35 • Number 4 • Winter 2013/14

## **Dry Year Planning NID Asks Customers to Save Water**

NID is preparing for long term dry conditions and the likelihood of limited water supplies in 2014. To stretch limited supplies, the district in January asked all water customers to voluntarily reduce water usage by 20 percent.

To save more water for later this year and next year, the NID Board of Directors in late January authorized staff to implement initial portions of the district's Drought Contingency Plan.

"In light of the extremely dry conditions and lowering water storage levels, the district has a responsibility to begin immediate conservation measures," NID Water Operations Manager Chip Close said at the Jan. 22 board meeting.

### **Feb. 26 Review**

As this newsletter went to press in late January, the NID Board of Directors was tentatively scheduled to consider an official water shortage declaration on Feb. 26 if there had not been a significant turnaround in the weather.

*(See Drought Concern, P. 3)*

## ***Saving Water in Cedar Ridge***



**Laura Gerhart and Lesa Osterholm, foreground, are pictured with Sharon Gerhart, Doris Bowen and Catalina Davis.**

## **Residents Achieve 29% Water Savings**

**C**edar Ridge resident Laura Gerhart says water conservation has been an important part of her life. She was doing a lot of the right things but discovered last year she could do more.

Gerhart lives with her mother, Sharon Gerhart, and two tenants, Doris Bowen and Catalina Davis, on a 1.34-acre family compound with shared landscaping, small lawns and a family garden. They use NID treated, piped water.

### **Help From NID**

Last year, Gerhart called NID and invited Water Efficiency Technician Lesa Osterholm to come out and take a look at her water usage.

*(Please See Cedar Ridge Water Saving, P. 2)*





## General Manager's Report

### A Look Ahead What We See in 2014

By Rem Scherzinger

With 2014 upon us, I'd like to share some of the issues and efforts NID anticipates in the year ahead. Of course, the continuing dry conditions have been on everyone's mind, especially ours. As we watch the skies for rain and snow, we are making dry year contingency plans for this year's water deliveries. Clearly, at this point, water conservation is going to be a primary concern for NID, rain or not. We need to remain very conscious of our carryover water storage for 2015 so that our community is protected from precipitation swings like we have experienced this year.

#### Credit, Online Bill Payment

We continue to move toward online and credit card bill payment, although we are not there yet. Staff is working on our current banking practices and we hope to make adjustments to those soon. We will be proposing to the Board of Directors a set of options to address the services our customers have been requesting.

#### Needed System Improvements

Our engineering team is engaged on many fronts and is completing a number of necessary capital projects. These range from the new Banner Taylor water storage tanks to the extension of water mains in the Lake of the Pines area. We are focused on projects to repair and replace aging infrastructure, while at the same time looking proactively into areas of need and expansion throughout the district.

#### Focus on Conservation

Our operations departments are fully engaged in key issues. On the water side, we are focused on conservation and economy as we head into what could be a very dry year. In-house conservation practices have insulated our customers from the first two years of this statewide drought and have placed us in a tight but workable situation this year. On the hydroelectric side, we are beginning our first full year of independent operation. We are excited about this because it will help us develop a clear picture of the true cost of hydro system operation and better our ability to leverage support for the district as a whole.

Our Recreation Dept. is moving toward an online reservation system and making improvements to our four camp sites at Rollins and Scotts Flat. Our beautiful lakeside facilities attracted 175,000 guests in 2013 and we are looking to broaden awareness and increase local and out-of-town visitation this year, water levels permitting.

We are working very hard to strengthen our internal district culture for frugality. We are clearly the low cost water provider in our area and I believe this is a testament to our cost cutting and tight operation and maintenance.

While it may be dry this year, we clearly have no shortage of work ahead of us. Our commitment to our community and our combined success is always in the forefront of our thoughts. Further, we encourage everyone's participation in our processes and would enjoy your company and input at our public meetings. If you have a question or concern, please feel free to stop by and let us know about it

## Cedar Ridge Water Saving

### Continued From P.1

When Osterholm arrived, she went over Gerhart's water use history, looked at the irrigation system and scheduling, types of plants and household use. "I found they were doing a lot of good things but I also found several more things that could be done," said Osterholm.

Gerhart used the recommendations to repair some household plumbing leaks and install water-efficient toilets. With about 50 percent of her water used for landscape watering, she focused on reducing irrigation times, using more drip irrigation and mulching. She said replanting and grouping plants according to water needs was very helpful.

The water saving measures were put into use last year and have resulted in great savings, said Osterholm, who compared Gerhart's usage over the past four years. "As a result of their water conservation efforts, inside and outside the house, Laura's family and friends reduced their water usage by 29 percent and saved \$225 on their summer water bill last year."

Gerhart said she, her mother and friends all have made a commitment to water efficiency. "We're even competing with each other to see who can save the most water," she said. "It's not as hard as it seems. It's easy. It just takes a concerted effort."

NID offers free water efficiency site visits for customers. See the Conservation section at [www.nidwater.com](http://www.nidwater.com) or call NID Customer Service at (530) 273-6185 or (800) 222-4102.

### Saving Water 101

For ideas and advice on how you can save water, please visit the NID website at [www.nidwater.com](http://www.nidwater.com). Click the Conservation tab where you'll find proven and effective ways to reduce your water use.



# Drought Concern

**Continued From P. 1**

Calling upon lessons of past droughts, the district has adopted a detailed Drought Contingency Plan that specifies five stages of water shortage conditions, ranging from a Stage 1 Alert which could allow normal water operations to a Stage 5 Critical Water Shortage Emergency which would require water use reductions of 35-50 percent.

Importantly, the Drought Contingency Plan establishes policy on minimum reservoir storage levels to be carried over from year to year. Minimum carryover is 78,000 acre-feet, which is about 31 percent of the district's 250,280 acre-foot storage capacity and about 56 percent of average annual water sales. District officials believe this minimum is necessary for health, sanitation and public safety purposes.

On the positive side, NID reservoirs have retained near average levels of water storage, however, there has been scant snowpack to replenish them. Mid-January water storage was at 146,000 acre-feet - 91 percent of average for this time of year - but snowpack water content was estimated at just 1 inch, which compares to an average 21.75-inch water content on Feb. 1.

"We're halfway through the precipitation year but we still have time to recover to levels where we can make normal deliveries," Water Operations Administrator Sue Sindt said on Jan. 22. "We would need an above average period but not an above average year," she said.

Two years ago, in March 2012, NID directors declared a water shortage alert in March and rescinded it in April after the so-called "March Miracle" brought 21.86 inches of precipitation (189 percent of the

***'We're halfway through the precipitation year...  
We still have time to recover to levels where we can  
make normal deliveries...'***

NID Water Operations Administrator  
Sue Sindt on Jan. 22



**Above, NID's French Reservoir (elev. 6835 ft.), had ice but very little snow on surrounding mountains in this Jan. 21 photo. Below, Scotts Flat Reservoir had dropped to low levels in this Jan. 6 photo. By late January, Scotts was holding at 31,900 acre-feet, which is 66 percent of capacity.**

March average) to NID mountain watershed, boosting water storage totals into the normal range.

General Manager Rem Scherzinger said NID staff is hoping for the best while planning for the worst. February, March and April can bring significant precipitation so it remains possible that normal weather patterns will return soon.



## Good Water Savings for Bear River HS

Bear River High School irrigates 13 acres of landscapes and fields and was using an average 3.2 million gallons of water per month in the summer. The campus was paying more than \$40,000 per year for water.

Leaders at the south Nevada County campus worked with NID to improve the efficiency of the school's landscape irrigation system and were able to achieve a 59 percent reduction in water use field tests.

How? NID Water Efficiency Technician Lesa Osterholm said the testing showed water was being lost to evaporation and runoff. A \$3500 investment in testing and retrofitting included new irrigation controllers and more than 400 new high efficiency spray nozzles. The school landscape staff had been working to reduce water use and found the new technologies helped greatly.

In addition to significant water use reduction, the campus has reduced the labor involved in operating the system. School officials are now looking to achieve similar savings on the school's sports fields.

**[nidwater.com](http://nidwater.com)**



## WATER MANAGEMENT

### Vegetation Control on the NID Canal System

**W**ith 400 miles of canals to operate and maintain, NID conducts a carefully managed program of aquatic and dry land vegetation control. Over the years, use of regulated and approved herbicides has been a most successful control method, however today's trend is toward less herbicide and more use of other methods. Chemical use is now viewed as a supplementary rather than primary method of control.

Jacqueline Longshore, NID Assistant Maintenance Supt. for Vegetation Control, said the district is always looking for safer, better and more environmentally ways of weed control. She said herbicide use is down by 70 percent over the past decade. Additional control methods include weed tarp and barley straw placement to keep vegetation growth down, cutting and mowing, livestock grazing, and a tractor-mounted thermal unit that uses steam to control new growth along canal berms.

The following materials are being used in the district's 2014 program:

**Apr. 1-Oct. 31:** Activator 90 (34704-50034) and Roundup Custom for Aquatic and Terrestrial Use (524-343-ZG) for control of vegetation along canals and berms; and Garlon 3A (62719-37-ZA) or Garlon 4 (62719-40-ZA) for the control of poison oak and blackberries. Aquatic vegetation and algae control with Captain (67690-9-AA), Cutrine Ultra (8959-53-AA), Nautique (67690-10-AA), Cascade (70506-176), and Greenclean Pro (7029-6-AA).

**Nov. 1-Mar. 31:** Activator 90 (34704-50034) and Roundup Custom for Aquatic and Terrestrial Use (524-343-ZG), Proclipse (228-434), Surflan (62719-113) and Transline (62719-259) for control of vegetation along canals and berms.

For more information on NID's vegetation control program, please see [www.nidwater.com](http://www.nidwater.com). The program is described in the Irrigation Water section.

#### How to Contact Your Elected Directors

##### **DIVISION I - Nevada City Area**

**Nancy Weber, (530) 265-0424**

##### **DIVISION II - Grass Valley-Chicago Park**

**John Drew, (530) 272-5257**

**Board President, 2014**

##### **DIVISION III - Lake of the Pines-Alta Sierra**

**Scott Miller, M.D., (530) 268-8778**

**Board Vice President, 2014**

##### **DIVISION IV - Lincoln-North Auburn**

**Jim Bachman, (916) 645-2059**

##### **DIVISION V - Penn Valley-Lake Wildwood**

**Nick Wilcox, (530) 432-2171**



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## Emergency Response

### PG&E, NID Step Up After Wind Storm Cuts Water

When a Nov. 21-22 wind storm knocked out sections of the South Yuba Canal in Bear Valley, PG&E and NID emergency response efforts began immediately. The South Yuba Canal is owned by PG&E and is a main source of water for NID's Nevada County distribution system.

High winds knocked trees and branches into flumes and canal sections, causing significant damage and severing water flows. PG&E crews completed repairs in three weeks but needed another week to

chip away ice and snow along the 19-mile canal.

Meanwhile, NID brought in a bank of high volume emergency pumps to lift water from the lower elevation DS Canal up into the Cascade Canal where it could supply affected areas. Outages were kept to a minimum although reduced flows were in effect.

Normal water flows were resumed on Dec. 20.



**NID's Ed Barton shows the emergency pumps on the DS Canal**

## NID News Briefs

**Water Rate Reminder.** Customers are reminded that water rates for both treated water and irrigation water were increased by 6 percent, effective Jan. 1. The increase is intended to bring water revenues more in line with the district's costs in providing public water service.

#### **NID Recognized for Openness in Govt.**

NID in November earned a District Transparency Certificate of Excellence from the Special District Leadership Foundation.

**Reminder on Pipe Insulation.** Some water users in Nevada and Placer counties were surprised by frigid temperatures early this winter. Now is a good time to insulate all exposed pipes and faucets to protect them from freezing. Frozen pipes can result in water loss and expensive repairs.

**NID Bonds Rated AA.** NID has maintained a "AA" rating from Fitch Ratings Service for its 2011 water system revenue bond issue of \$26.7 million. The bonds have been used to finance major capital improvements on the NID water system and are being repaid through water system revenues.

**NID's QR Code**  
Scan this QR Code with  
your smart phone for direct  
access to the NID website.



<http://www.nidwater.com>



The Union | Friday, September 12, 2014 |



**Repair Leaks,  
Save Water!**

**NID asks all users to *reduce usage by 20 percent* until the drought is over.**

For easy and effective ways to save water,  
see the Conservation section at:  
**[www.nidwater.com](http://www.nidwater.com)**

  
**NID**  
NEVADA IRRIGATION DISTRICT

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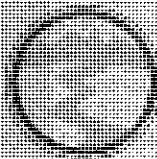
1036 West Main Street, Grass Valley, CA 95945  
(530) 273-6185 [www.nidwater.com](http://www.nidwater.com)



## Don't Water During the Heat of the Day

With California facing  
its worst drought  
in a generation,  
the State Water Board  
has adopted new  
water-saving regulations.

Please don't water between the hours of 10 am and 6 pm.  
Limit watering to two days per week as possible.



**NID**

Northwest Irrigation District

For easy and effective ways to save water,  
see the Conservation section at  
**[www.nidwater.com](http://www.nidwater.com)**

1036 West Main Street, Grass Valley, CA 95945

(530) 273-6185 [www.nidwater.com](http://www.nidwater.com)





**Grab a wrench  
and fix that  
leaky faucet.**

It's simple, inexpensive, and you can save  
140 gallons a week.

For more tips on saving water, see  
[www.nidwater.com](http://www.nidwater.com)

**NID**  
NORTHERN INDIAN DISTRICT

1036 West Main Street, Grass Valley, CA 95945  
(530) 273-6185 [www.nidwater.com](http://www.nidwater.com)

# **WATER SUMMIT**

## **Learn About the Serious Water Issues Facing Our Community**

**Thursday, July 24, 6-8 pm**

**Don Baggett Theater**

**Nevada Union High School**

**Open to The Public, Hosted by the Nevada Irrigation District**

**Public Comment • Q & A**



NEVADA IRRIGATION DISTRICT

**Drought Awareness: NID asks all water users to reduce usage by 20 percent until the drought is over. For easy and effective ways to save, see the Conservation section at**

**[nidwater.com](http://nidwater.com)**

**Nevada Irrigation District**

**1036 West Main Street, Grass Valley, CA 95945**

**(530) 273-6185 [www.nidwater.com](http://www.nidwater.com)**



**Support Your  
Local  
Community**

**CONSERVE  
WATER!**

Getting Through the Drought: NID asks all water users to reduce usage by **20%** until the drought is over. For easy and effective ways to save, see the Conservation section at

**[nidwater.com](http://nidwater.com).**

**Do Your Part, Help Conserve Water**

1036 West Main Street, Grass Valley, CA 95945

(530) 273-6185 [www.nidwater.com](http://www.nidwater.com)



# Do Your Part, Be Water Smart

- ✓ Repair all leaks immediately, water loss adds up quickly and is costly
- ✓ Water landscaping in early morning or late evening to reduce evaporative loss
- ✓ Put mulch around plants to retain soil moisture
- ✓ Raise the height on your mower to retain soil moisture
- ✓ Use a spray nozzle on your hoses and don't let the water run
- ✓ Take shorter showers, you can do it!
- ✓ Turn off the faucet while brushing your teeth
- ✓ Wash only full loads in the clothes washer and dishwasher
- ✓ Make sure your appliances are high efficiency for water and energy savings

Visit [www.nidwater.com](http://www.nidwater.com) and try the Water Use Calculator to see how much water your home uses. You'll also find many more helpful water efficiency tips and links for information.



## NID

NEVADA IRRIGATION DISTRICT

**Support Your Local  
Community,  
Conserve Water!**

**Stage II  
Drought  
in Effect**

Water Saving Tips:  
**[nidwater.com](http://nidwater.com)**



**Saving Water  
One Gallon  
at a Time,**

**...Because  
Every Gallon  
Counts!**

**Stage II  
Drought  
in Effect**



Water Saving Tips:  
**[nidwater.com](http://nidwater.com)**





# NEVADA IRRIGATION DISTRICT

1036 W. Main Street, Grass Valley, CA 95945-5424 ~ [www.nidwater.com](http://www.nidwater.com)  
(530) 273-6185 ~ Fax: (530) 477-2646 ~ Toll Free: (800) 222-4102

August 1, 2013

## **RE: Voluntary Water Conservation Request**

Dear NID Customer,

Nevada Irrigation District has undertaken an 8 million dollar water tank replacement project in your area. This project will help ensure a reliable and safe drinking water supply for our customers with the replacement of two outdated drinking water reservoirs. One tank was recently completed in June, and the second tank replacement is now underway. During this second phase of the project, the second tank will be temporarily out of service resulting in a reduction of available water storage. NID is asking for voluntary water conservation through the months of August and September while the construction continues.

There are many ways to conserve water and also save on your water bill. Typically, almost 50% of your water usage is due to outside irrigation for landscaping. Ways to conserve water include watering every other day, watering during early morning or evening hours to avoid evaporation loss, leaving a higher grass height to keep soil moist and limiting the run times on your irrigation controller.

The largest indoor water use is from toilets, clothes washers and showers. Repairing leaks can also save a significant amount of water. One leaky toilet can lose approximately 500 gallons of water per day and cost you money. Stop by the NID booth at the Nevada County Fair or the NID Main Office to pick up free dye tablets to detect leaks with your toilets.

Visit the NID website at [www.nidwater.com](http://www.nidwater.com) for additional information regarding water conservation.

NID values its customers and thanks you in advance for your cooperation.

Lesa Osterholm  
Water Efficiency Coordinator

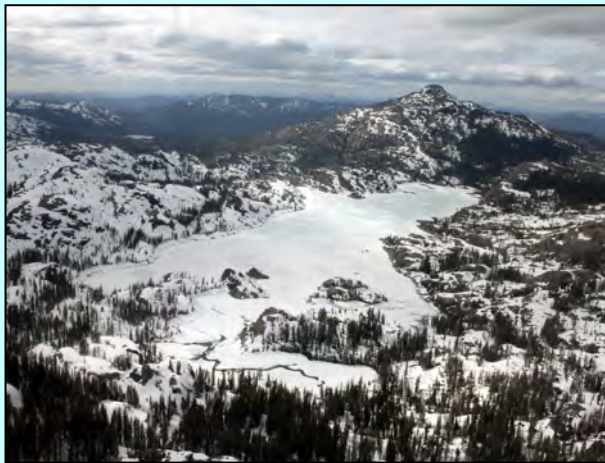
## Why is Saving Water Important?

With the recent changes in weather patterns, we are experiencing more extremes such as multiple drought years or more precipitation falling as rain instead of snow. In the upper watersheds, snowpack is very important as it provides water into the summer and fall months. With limited water storage capabilities, water conservation becomes a must for everyone.

NID water is used for human consumption, agriculture, recreation, hydropower and the environment.

The California Conservation Act of 2009 requires customers to reduce their water usage 20% by the year 2020.

**Water conservation is everyone's responsibility** in order to ensure a high quality, reliable water supply now, and into the future.



French Lake Elevation ft. 6,678

## Serving Our Customers Since 1921

- ♦ Irrigation Water
- ♦ Drinking Water
- ♦ Recreation
- ♦ Hydro Power

Visit [www.nidwater.com](http://www.nidwater.com) for water saving tips and try the “Water Calculator” link to determine your home's water usage. Contact the NID Water Efficiency Department for more information and assistance.

Contact the UC Master Gardeners for free assistance with planting information at [www.ceplacer@ucdavis.edu](mailto:www.ceplacer@ucdavis.edu)



Nevada Irrigation District  
1036 W. Main Street  
Grass Valley, CA 95945  
Tel: 530-273-6185  
[www.nidwater.com](http://www.nidwater.com)



Lower Scotts Flat Lake

## WATER CONSERVATION

### Preserving Water, One Gallon at a Time Because Every Gallon Counts



**Nevada Irrigation District**







# HOW TO BE WATER WISE

## Water – Our Precious Resource

Everyone can help to conserve water. Water is a precious and finite source.

**Did you know that although 70% of the Earth's surface is water, less than 1% is actually available for human use?**

Did you know that at least 36 states are projecting water shortages according to the U.S. Environmental Protection Agency?

Did you know that on average every American uses about 100 gallons of water per day, 400 gallons per household family of four or 146,000 gallons per year?

Did you know that you can save about 30% of your water use by installing more efficient water fixtures like toilets, showerheads, faucets, dishwashers and clothes washers?

Balancing water supply and demand is a growing challenge with increased population and changing climate. Everyone can help conserve!



Jackson Meadows Reservoir Elevation ft. 6,065

## How to save water indoors?

Changing our daily habits can help save water and reduce your water bill.



Here are some tips to help you:

- ◆ Repair leaky faucets, toilets and other leaks as soon as possible. At 1 drip per second, a faucet can leak 3,000 gallons per year.

Simple fixes: A leaky faucet may be due to a worn washer needing replacement. A leaky toilet may need a new flapper. Both fixes are simple and inexpensive.

- ◆ Turn off the water when brushing your teeth and save about four gallons each time
- ◆ Wash only full loads in the dishwasher and clothes washer and save about 50 gallons per week. High efficiency wash machines save up to 20 gallons per load.
- ◆ Reduce the time in the shower and install low flow showerheads. Taking a bath uses about 70 gallons of water: a five minute shower uses 10-25 gallons
- ◆ Install low flow aerators on older faucets; it feels the same but saves water. Replace outdated water fixtures and appliances with high efficiency appliances to save money, water and energy

Stop by the NID Business Office and pick up **free dye tablets** to help you detect leaks in your toilets.

## How to save water outdoors?

About 50% of water use is for outdoor use such as lawns, landscaping, pools and water features.

Try these tips:



- ◆ Know your **plant's watering needs and don't over-water.** Its not healthy for the plants.
- ◆ Group landscape plants as to their water and sunlight needs
- ◆ Try native and drought resistant plants which require very little water once established
- ◆ Use drip or micro sprinkler irrigation to place water directly where it is needed
- ◆ Correctly position sprinklers and avoid overspray onto sidewalks
- ◆ Water in the early morning or evening hours to avoid evaporation losses
- ◆ Raise the cutting height on your lawnmower to help retain soil moisture
- ◆ Apply mulch around the trees and plants to help retain soil moisture
- ◆ Use a spray nozzle on hoses and use a bucket when washing cars, boats and other vehicles
- ◆ Install a pool cover to reduce evaporation





# NID

NEVADA IRRIGATION DISTRICT

# Waterways

A NEWSLETTER TO THE CUSTOMERS OF THE NEVADA IRRIGATION DISTRICT

**Yuba-Bear Project  
Prepared for Future  
...Page 2**

**Recreation at  
Scotts, Rollins  
...Page 3**



Volume 34 • Number 1 • Spring 2013

## Good Storage and Water Supply for 2013

**T**hrough careful management of the water supply, NID has maintained good levels of reservoir storage and is planning to make normal deliveries this year.

District reservoir levels rose in the near record rains of November and December but the normally wet months of January, February and March brought just eight inches of precipitation to NID mountain watershed.

Official April 1 snow surveys, usually the year's best indicator of seasonal water supplies, showed just 50 percent of average water content in a thin mountain snowpack.

Seasonal precipitation at Bowman Reservoir (elev. 5,650 ft.) stood at 52.62 inches as of Apr. 10, which equals 87 percent of average. Seasonal precipitation is measured July 1-June 30.

April 10 storage in NID's 10 reservoirs stood at 233,277 acre-feet, which is 93 percent of capacity and 125 percent of average for the date.

"Although we're starting out with well above average water storage, we are expecting below average



runoff from the snowpack," said NID Water Operations Administrator Sue Sindt. "This could impact the amount of storage we are able to carry over for 2014."

Sindt said NID will continue a conservative approach in water system operation and is encouraging district customers to eliminate water waste and to use water efficiently.

### Increased Flows in Cascade, DS Systems

More water is flowing to irrigation water users in Nevada County following the recent upgrades of the Cascade and DS canal systems.

## Irrigation Season

**NID's Gene Presley, left, visits with rancher Jim Gates, owner of Nevada County Free Range Beef, who purchases 40 miners' inches of water from the Newtown Canal to irrigate his pastures.**

NID Water Supt. Nathan Wasley said flows in the Cascade system have been upped by 1 cubic foot per second (cfs) and flows in the DS system are up by 3 cfs.

Flow studies are planned this summer to determine new canal carrying capacities, Wasley said.



# **WATER FOR AGRICULTURE**

SUPPORT YOUR  
LOCAL GROWERS



NID Water Distribution Operator Paul Hopper visits with customer Drew Horwath at Mooney Flat Farm

## **SERVING NEVADA & PLACER COUNTIES**

**WE** can offer help if you would like to use your irrigation water more efficiently. Call us or see our website at [www.nidwater.com](http://www.nidwater.com) for information on:

- **USDA cost-sharing assistance for water conservation programs for commercial agricultural producers**
- **Classes on Effective Agricultural Irrigation**
- **Irrigation Management Programs in the Field**

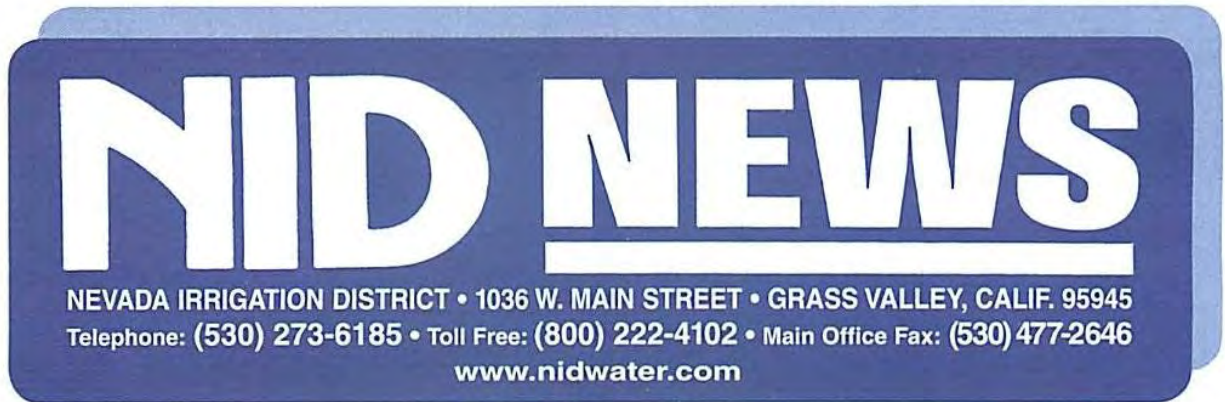
NEVADA IRRIGATION DISTRICT • 1036 WEST MAIN ST., GRASS VALLEY, CA 95945  
(530) 273-6185 OR (800) 222-4102



# **NID**

NEVADA IRRIGATION DISTRICT

[www.nidwater.com](http://www.nidwater.com)



**March 14, 2012**

**Contact: Ron Nelson  
(530) 273-6185  
Or: Dave Carter  
(530) 265-NEWS**

**FOR IMMEDIATE RELEASE:**

**NID Calls for Voluntary Water Conservation**

*GRASS VALLEY* - As the season's biggest rainstorm blustered outside, directors of the Nevada Irrigation District on Wednesday (March 14) declared a Stage 2 water shortage alert, calling for voluntary water conservation by customers this year.

The board's unanimous action was based on forecasts that spring runoff from the mountain watershed will be only about 40 percent of average. Directors noted that continued wet weather could boost runoff and ease the potential shortage.

"At this point it would be irresponsible for us not to declare Stage 2 - you can't just look out the window," said NID Board President Nick Wilcox. "Of course, the situation could change, but it's better to be prepared. We have to be very careful."

The board approved an updated version of the district's drought contingency plan. It outlines five stages water supply, ranging from Stage 1 with normal conditions to Stage 5, which is a critical water shortage emergency with a 35-50 percent shortage.

With considerable precipitation in the short term forecast, directors expressed hope that voluntary conservation measures would be sufficient for this year, while maintaining adequate reservoir carryover storage for next year.

With the Stage 2 declaration, NID will ask all customers to voluntarily reduce water use by 10-15 percent. The district will offer irrigation water users the water- and moneysaving option of reducing their annual purchase for this year only. New irrigation water customers will be limited to purchase of one-half miners' inch of water.

Meanwhile, the district will purchase all water made available by the Pacific Gas and Electric Company and will limit its own sales of surplus water. Educational outreach efforts are planned to keep the community informed of the situation.

Directors also appointed a Drought Hardship Committee that would be activated if a Stage 3 condition is reached. The five-member citizens committee includes a representative appointed by each member of the NID board.

Representatives are Jim Gates, Division I; Chris Bierwagen, Division II; Dave Barhydt, Division III; Wayne Vineyard, Division IV; and Rich Johansen, Division V.

The NID Board is expected to review the water supply condition in mid-April and determine a course of action for the coming irrigation season.

For more information on water availability, water use efficiency and potential cost-savings through reduced water purchase, contact NID Customer Service at (530) 273-6185 or (800) 222-4102, or see [www.nidwater.com](http://www.nidwater.com).



**FREE**

# Irrigation Seminars

*Sponsored by Nevada Irrigation District*



**( Nevada County )**

**Saturday**

**April 23rd**

**8:30am– Noon**

**At the**

**NID Annex Building**

**1036 W. Main St**

**Grass Valley, CA 95945**

\*\*\*\*\*

**Must RSVP**

\*\*\*\*\*

**( Placer County )**

**Saturday**

**April 30th**

**8:30am—Noon**

**At the**

**Bachman Ranch**

**3680 Garden Bar Rd**

**Lincoln, CA 95648**

**(bring a chair)**

**RSVP**

**to NID**

**530-273-6185**

**Ext 232**

**osterholm@nidwater.com**

**Space is Limited**

*These seminars are geared toward  
the ranchette type landowner and  
irrigation for agricultural purposes  
Call Keith Crabtree  
with any questions at 530-269-1217*

*Learn the following:*

What is a miners inch of water?

How much water do you actually need?

Learn how to design an effective irrigation system

Learn how to efficiently schedule your irrigation,

when and how much water to apply

Learn about checking for soil moisture

How to check the pressure on your system

How to make your irrigation water apply uniformly

Ask questions of your NID representative



# FREE

# Irrigation Seminars

*Sponsored by Nevada Irrigation District*



( PLACER COUNTY )

**Saturday  
April 7th, 2012**

**8:30am– Noon**

**At**

**Bachman Ranch  
3680 Garden Bar Rd  
Lincoln, CA 95648  
(Bring a chair,  
Lunch provided)**

\*\*\*\*\*

**Must RSVP**

\*\*\*\*\*

( NEVADA COUNTY )

**Saturday  
April 14th, 2012**

**8:30am—Noon**

**At**

**Hopeful Hill Ranch  
13303 Hopeful Hill Road  
Nevada City, CA9595  
(Bring a chair)**

**RSVP**

**to NID**

**530-273-6185**

**Ext 232**

**Osterholm@nidwater.com**

**Space is Limited**

*These seminars are geared toward the  
ranchette type landowner and  
irrigation for agricultural purposes.*

## Learn the following:

What is a miners inch of water?

How much water do you actually need?

Learn how to design an effective irrigation system

Learn how to efficiently schedule your irrigation,  
when and how much water to apply

Learn about checking for soil moisture

How to check the pressure on your system

How to make your irrigation water apply uniformly

Learn how to conserve water

Ask questions of your NID representative



Photo courtesy of Lesa Osterholm





# Irrigation Workshop

# FREE

*Sponsored by  
Nevada Irrigation District*

( NEVADA COUNTY )

**Saturday**

**March 30th, 2013**

**8:30am– Noon**

**At**

**Nevada Irrigation District**

**1036 W. Main St**

**Grass Valley, CA 95945**

\*\*\*\*\*

**Must  
RSVP**

\*\*\*\*\*

( PLACER COUNTY )

**Saturday**

**April 6th, 2013**

**8:30am—Noon**

**At**

**Bachman Ranch**

**3680 Garden Bar Rd**

**Lincoln, CA 95648**

**(Bring a chair,**

**Lunch provided)**

**RSVP**

**to NID**

**530-273-6185**

**Ext 232**

**Osterholm@nidwater.com**

**Space is Limited**

*These seminars are geared toward the  
ranchette type landowner and  
irrigation for agricultural purposes.*

## Learn the following:

What is a miners inch of water?

How much water do you actually need?

Learn how to design an effective irrigation system

Learn how to efficiently schedule your irrigation,  
when and how much water to apply

Learn about checking for soil moisture

How to check the pressure on your system

How to make your irrigation water apply uniformly

Learn how to conserve water

Ask questions of your NID representative



Photo courtesy of Lesa Osterholm





# FREE

# Irrigation Workshop

## Learn :

- *What is a miners inch of water;*
- *How much water do you actually need;*
- *How to design an effective irrigation system;*
- *How to efficiently schedule your irrigation;*
- *When and how much water to apply;*
- *How to check for soil moisture;*
- *How to check the pressure on your system;*
- *How to make your irrigation water apply uniformly;*
- *How to conserve water*

**Friday**  
**June 26, 2015**  
**8 am to 2 pm**

**Or**

**Saturday**  
**June 27, 2015**  
**8 am to 2 pm**

Workshop will be held at  
a private ranch in

**Auburn CA**

Call for details

**\*\*\*Participants Must Preregister\*\*\***



**Bring a chair, sack lunch, walking shoes and sunscreen**

**Light refreshments will be provided**

**For information or to register please contact:**

**530-273-6185 Ext 286 or [tipton@nidwater.com](mailto:tipton@nidwater.com)**

**Space Is Limited To 30 Participants Per Class**



## Errata Sheet for Minor Corrections to Nevada Irrigation District 2015 Urban Water Management Plan (UWMP)

This errata sheet logs minor content errors that were identified after final adoption of the *Nevada Irrigation District* 2015 UWMP. DWR has determined that these corrections are minor and do not require the UWMP to be amended.

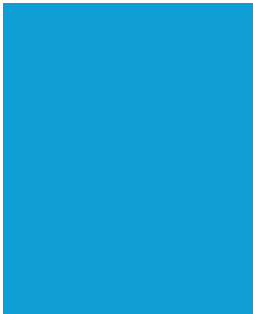
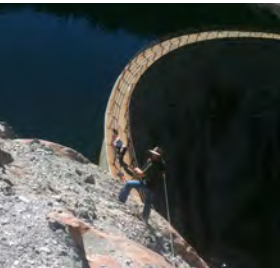
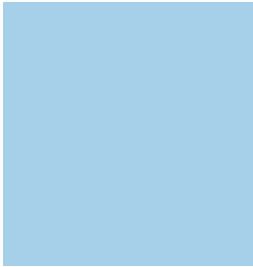
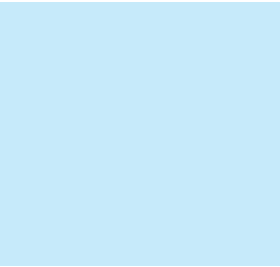
**X** These data errors have been corrected in the Department of Water Resources (DWR) UWMP database at <https://wuedata.water.ca.gov/secure/>

**X** This errata sheet has been filed with the UWMP in all locations where it is made publicly available, including the California State Library. Errata may be submitted to State Library via email to [cslgps@library.ca.gov](mailto:cslgps@library.ca.gov)

Name and agency of the person filing errata sheet:

Melanie Holton, Brown and Caldwell on behalf of Nevada Irrigation Water District

#	Description of Correction	Location	Rationale	Date Error Corrected
1	Table 3-1 (DWR Table 4-1) Water loss volume changed from 1,070 ac-ft to 459 ac-ft/yr	Page 3-2	2015 water losses in UWMP Table 3-1 (DWR Table 4-1) corrected to match water audit water losses in Table 3-4 (DWR Table 4-4) and AWWA water loss audit sheet.	August 29, 2017
2	Updated SBX7-7 Verification Tables 4, 4-A, 5, 6, and 9 and Table 4-3 due to updated gross water demand 2015 gpcd updated from 141 gpcd to 130 gpcd.	Appendix G and Page 4-6	2015 retail gross water demand from 7,912 ac-ft to 7,301 ac-ft based on water loss correct described in Item #1.	August 29, 2017
3	Updated Table 3-3 (DWR Table 4-3) for updated total potable and raw water from 126,653 ac-ft to 126,042 ac-ft.	Page 3-5	2015 retail gross water demand from 7,912 ac-ft to 7,301 ac-ft based on water loss correct described in Item #1.	August 29, 2017



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