Kern River Valley

Calculation of Urban Water Supplier's Conservation Standard Supply Reliability for Three Additional Years of Drought			
Step 1: Determine Total Potable Water Demand (used in Step 3)			
Potable Water Production in Calendar Year 2013	277.78		MG
Potable Water Production in Calendar Year 2014	264.29		MG
Total Potable Water Demand *= ([Potable Water Production 2013]+[Potable Water Production 2014])/2*	271.04		MG
Step 2: Calculate Total Potable Water Supply			
Potable Water Supply	Year 1	Year 2	Year 3
Local Surface Water (million gallons)	N/A	N/A	N/A
Imported Water (million gallons)	162.9	162.9	162.9
Groundwater (million gallons)	1454	1454	1454
Total Potable Water Supply (million gallons) *= [Local Surface Water]+[Imported Water]+[Groundwater]*	1616.9	1616.9	1616.9
Step 3: Calculate Conservation Standard			
Total Potable Water Demand (from Step 1)	271.035		MG
Total Potable Water Supply (from Step 2)	1616.9		MG
Supply Shortfall in Year 3 (negative amount indicates a surplus) *= [Total Potable Water Demand]-[Total Potable Water Supply]*	-1345.865		MG
Conservation Standard with Self-Certification of Supply Reliability *=[Shortfall in Year 3] / [Total Potable Water Demand]*	**0%**		

Step 2 of Water Supply Reliability Certification and Data Submission Form

California Water Service Company Kern Rive << *Enter name of urban water supplier*

User Input Instructions

(1) Please select units of measure from the dropdown menu.

(2) Enter information on available water supplies and supplies committed to other uses.

LEGEND:

User Input or Selection	
Linked from User Input	

million gallons (MG) << *Select units of measure*

Available Water Supplies

Sources of Supply	Name of Provider(s) or Description	Source used in prior years?	Water Available in			Wholesaler information	Wholesaler Water System Number**	
			WY 2017 *	WY 2018 *	WY 2019	Direct Web Link		
WHOLESALER SUPPLIED *>> Provide direct web link(s) to information on the volume of water the wholesaler expects to deliver to the retailer water supplier in each year.*								
Wholesaler 1		Select Y/N						
Wholesaler 2		Select Y/N						
Wholesaler 3		Select Y/N						
Wholesaler 4		Select Y/N						
Wholesaler 5		Select Y/N						
SELF-SUPPLIED								
Water Recycling (potable)		Select Y/N						
Surface water: SWP		Select Y/N						
Surface water: CVP		Select Y/N						
Surface water: Colorado River		Select Y/N						
Surface water: other (describe)		Select Y/N						
Surface water: other (describe)		Select Y/N						
Local Groundwater	Well Production	Yes	1,454.0	1,454.0	1,454.0	***<< Complete groundwater tab***		
Seawater Desalination		Select Y/N						
Transfers		Select Y/N						
Exchanges	2800-Acre Recharge Facility	Select Y/N	162.9	162.9	162.9			
Other (describe):		Yes				*<< To add more self-suplied sources, insert as many rows*		
	SUBTOTAL of available supplies (in units selected)		1,616.9	1,616.9	1,616.9			

** Any carryover from one year is incorporated in the supply of the following year, as legally allowed.*

*** Look up Water system number at this link: https://sdwis.waterboards.ca.gov/PDWW/*

Rows can be inserted to account for other sources of supply (e.g., desalination of brackish water, banked water)

If a source has not been used in prior years, e.g., a new treatment facility will be constructed, supporting documentation must document when the new source will be fully implemented.

Water Supplies Committed to Other Uses (Not Available)

Other Uses	Describe	Quantity in WY 2017	Quantity in WY 2018	Quantity in WY 2019
Agriculture				
Commercial, industrial or institutional				
New residential customers				

Transfers				
Other:				
Other:				
	SUBTOTAL of supplies not available (in units selected)	-	-	-

TOTAL available water supply (in units selected)	1,616.9	1,616.9	1,616.9

(Subtotal of available supplies minus subtotal of supplies committed to other uses)

>>> Please enter values calculated below in Step 2 of the online form

TOTAL available water supply converted to acre feet	**4,962**	**4,962**	**4,962**

>> If error, verify you have selected units of measure

California Water Service - Kern River Valley Supporting Analysis and Calculations		
Well ID	Design Flow (GPM)	Mgals
1	100	42
2	190	80
3	115	48
4	20	8
5	60	25
6	200	84
7	250	105
8	25	11
9	35	15
10	75	32
11	75	32
12	25	11
13	15	6
14	125	53
15	300	126
16	300	126
17	40	17
18	80	34
19	50	21
20	45	19
21	482	203
22	150	63
23	175	74
24	250	105
25	150	63
26	150	63
	Total	1464

Groundwater Supply Notes

We project that 1,454 million gallons (MG) will be available annually from groundwater sources in 2017, 2018, and 2019. This is a conservative figure based on 80% of the capacity of currently active wells run 24 hours a day, 7 days a week.

Water Supply Notes

The figures provided are based on the "Agreement for Extraction, Exchange & Delivery of Banked Groundwater" between the City of Bakersfield and California Water Service Company. This agreement provides access to up to 500 AF/year to California Water Service. The water is made available through California Water Service's utilization of its 2800 Acre banked water.