

#### VIA EMAIL

April 5, 2021

Attn: Mr. Erik Ekdahl Deputy Director of Water Rights State Water Resources Control Board Division of Water Rights P.O. Box 2000 Sacramento, CA 95812-2000

#### Re: Reporting Requirements for Term 11 of the State Water Resources Control Board Order Dated February 4, 2021 (Amended February 11, 2021)

Dear Mr. Ekdahl:

In accordance with the requirements of the State Water Resources Control Board Order dated February 4, 2021 and amended on February 11, 2021 that approved the Temporary Urgency Change Petition for water-right Permit 12947A (Applications 12919A), please accept the submittal of the following enclosed report by Sonoma Water:

• Term 11 – Lake Mendocino Water Accounting Methodology

If you have any questions about these reports, please do not hesitate to contact me at tschram@scwa.ca.gov.

Sincerely,

Todd J. Schram, P.E. Water Agency Engineer IV

Enclosure

- c: S. Boland-Brien State Water Resources Control Board, Division of Water Rights
  - G. Davis, J. Jasperse, P. Jeane, D. Seymour, J. Martini-Lamb, D. Manning Sonoma Water
  - C. O'Donnell, A. Brand Sonoma County Counsel
  - R. Bezerra Bartkiewicz, Kronick & Shanahan
  - E. Salomone Mendocino County Russian River FCWCID

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State Water Resources Control Board Amended Order of February 11, 2021

# Term 11

# Lake Mendocino Water Accounting Methodology



April 5, 2021

Prepared by

Sonoma County Water Agency 404 Aviation Blvd Santa Rosa, CA 95403

# 1 Introduction

The Sonoma County Water Agency (Sonoma Water) submitted a temporary urgency change petition on January 13, 2021 for modifications to water right Permit 12947A that would implement an alternative hydrologic index to establish minimum instream flow requirements in the Upper Russian River (upstream of the Dry Creek confluence). On February 4, 2021, the State Water Resources Control Board (State Water Board) Order was issued approving Sonoma Water's petition. On February 11, 2021, the State Water Board issued an amended order (Order). This report documents Sonoma Water's response to the requirements of Term 11, which was unchanged under the Order.

The following requirements of Term 11 are to be submitted by April 1, 2021:

"...a proposed accounting methodology to the Deputy Director that characterizes the source and basis of right of water flowing into (inflow) and released from Lake Mendocino and the subsequent rediversion of this water by Sonoma Water or its contractors. The accounting methodology shall be sufficient to define, distinguish, and quantify the following:

- a. Inflows from water native to the watershed and flows originating from the Potter Valley Project (PVP) or the Eel River.
- b. Releases from Lake Mendocino that constitute bypass of water native to the watershed, bypass of water from the Eel River or PVP, water released from storage for downstream deliveries, or water released from storage to maintain instream flows.
- c. Releases from Lake Mendocino that are rediverted by Sonoma Water or its contractors.
- d. Sonoma Water may choose to include additional inflow or outflow categories not listed under a, b, and c in the accounting methodology. Explanations for each category and how it is defined shall be included in the proposed accounting methodology. ...'

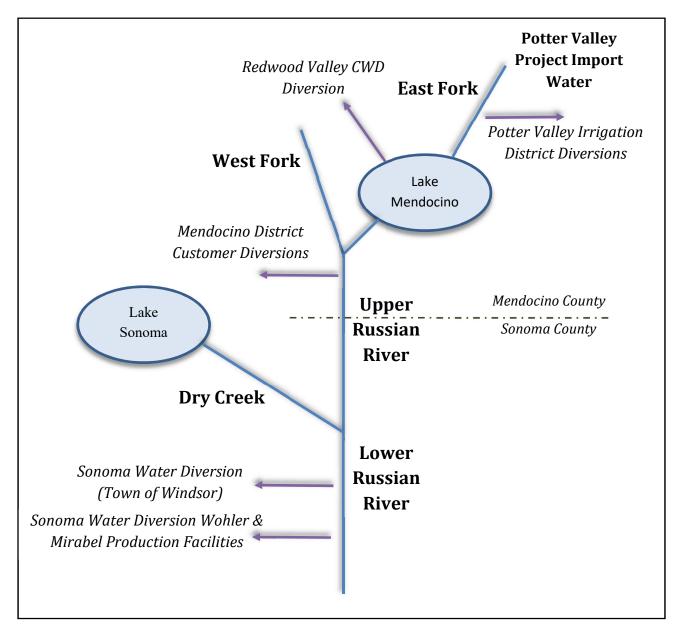
Sonoma Water understands that the State Water Board may submit requested revisions to the accounting methodology. Furthermore, if the Upper Russian River minimum instream flow requirements are established by the hydrologic index of the Order on May 1<sup>st</sup> as 'Critical' or Dry', then the accounting methodology shall be implemented with weekly reports posted publically online. Any revisions requested by the State Water Board shall be implemented within 30 days.

# 2 Russian River System

The Russian River is approximately 110 miles long with a watershed that spans more than 1,485 square miles. A schematic of the major features and reaches of the Russian River related to the water accounting effort is presented in Figure 1. The headwaters of the East and West Forks of the Russian River are north of the City of Ukiah in Mendocino County. The East Fork originates in Potter Valley and receives transfers from the Eel River watershed to the north through the Potter Valley Project, a hydroelectric project operated by PG&E. The Potter Valley Irrigation District has a water supply contract with PG&E that serves as their primary water supply. The Coyote Valley Dam that forms Lake Mendocino is located further downstream on the East Fork just prior to the confluence with the West Fork. In the most general terms,

the river can be divided into two reaches, the Upper Russian and the Lower Russian with the confluence of Dry Creek as the boundary between the two reaches. The Warm Springs Dam that forms Lake Sonoma lies on Dry Creek. Lake Sonoma and Lake Mendocino are operated by Sonoma Water for water supply and combined, releases from the two reservoirs are used to meet minimum instream flow requirements and downstream users authorized to divert stored project water.





### 3 Lake Mendocino Operations

Sonoma Water is the local sponsor for Lake Mendocino, a U.S. Army Corps of Engineers (USACE) facility, and is responsible for making water supply releases in compliance with its water right permits. As the local

sponsor, Sonoma Water has the exclusive right to control releases from the water supply pool. Under flood control operations, reservoir releases are performed by the USACE.

Sonoma Water makes releases from Coyote Valley Dam at Lake Mendocino to maintain the minimum instream flow requirements specified in its water right permits and for downstream beneficial uses along the Russian River, including diversions for domestic, municipal, industrial and agricultural purposes. These releases are made by Sonoma Water when reservoir storage levels are in the water supply pool as determined by the reservoir guide curve, a seasonally-variable water surface elevation documented in the facility's Water Control Manual.

Sonoma Water and the Mendocino County Russian River Flood Control and Water Conservation Improvement District (Mendocino District) each have a water right that authorizes storage of water in Lake Mendocino's water supply pool, rediversion of storage releases downstream, and direct diversion of Russian River water.

Under standard operations, Sonoma Water makes release decisions from Lake Mendocino based on compliance with minimum instream flow requirements in its water right permits at compliance gage locations in the Upper Russian River that extends to the confluence with Dry Creek in Healdsburg, over 64 miles downstream of Lake Mendocino. The minimum instream flow requirements for the Upper Russian River downstream of Lake Mendocino are divided into two regulatory reaches. Lake Mendocino lies on the East Fork of the Russian River and the region downstream has a year-round minimum instream flow requirement of 25 cubic feet per second (cfs). The East Fork confluence with the West Fork lies approximately one mile downstream of Coyote Valley Dam (CVD). From this point, referred to as The Forks, to the Russian River's confluence with Dry Creek, the minimum instream flow requirements range from 25 cfs under *Critical* conditions to 185 cfs under *Normal* conditions in the spring and summer.

## 4 Watershed Water Rights

To perform a proper water accounting in the Upper Russian River, a methodology must account for the amount of the various water sources types in the reservoir or reaches and the transactions of inflows and outflows for each water source. Diversions under water rights in the watershed is a major component of the outflows or reach losses observed during the dry season. Table 1 identifies the categories of water rights present in the Russian River watershed and their relative priorities to the three main types of water present downstream of Lake Mendocino—natural flow, imported water and reservoir storage water. As identified in Table 1, releases of stored water from Lake Mendocino is available for authorized rediversions by Sonoma Water, the Mendocino District, and post-1949 appropriative water rights in Sonoma County under the 10,000 acre-foot storage reservation. Stored water releases are also used to meet minimum instream flow requirements.

	Downstream Water Rights by Priority	Pass- through, Natural Flow	Pass- through, Import Water (PVP)	Storage Releases (Project Water)	Notes
(a)	Riparian	1			
(b)	Pre-1914	2	1		
(c)	Pre-1949 (Post-1914)	3	2		
(d)	Sonoma Water Permit 12947A	4	3	1	Exports out of Russian River watershed have lower priority than (e) and (f) to project water
(e)	Mendocino RRFCWCID License 13898	4	3	1	
(f)	Post-1949 Mainstem, Sonoma County	5	4	2	Project water available under the 10,000-afa Storage Reservation for Sonoma County
(g)	Post-1949 Mainstem, Mendocino County	5	4		

 Table 1: Priority of Water Rights Associated with Lake Mendocino

In order to provide a comprehensive accounting of Sonoma Water's rediversions of Lake Mendocino, the water accounting must include an analysis of the Lower Russian River, defined from the confluence with Dry Creek down to the last compliance stream gage at Hacienda Bridge near Guerneville. The water accounting in the Lower Russian River introduces another water source type, stored water released from Lake Sonoma. Unlike Lake Mendocino, Sonoma Water is the sole authorized diverter for stored water releases from Lake Sonoma. The two reservoirs are operated conjunctively, but because Lake Sonoma is significantly larger, compliance with minimum instream flow requirements in the Lower Russian River is largely met by releases from Lake Sonoma, particularly under *Dry* and *Critical* water year classifications.

## 5 Water Accounting

In response to Term 11 of the Order, Sonoma Water has developed a water accounting methodology that can be implemented to produce a weekly report that characterizes the inflows and releases of Lake Mendocino. The methodology uses available measured data, estimated data, and assumptions to provide estimates of water availability by source on a daily basis.

### Lake Mendocino Inflow

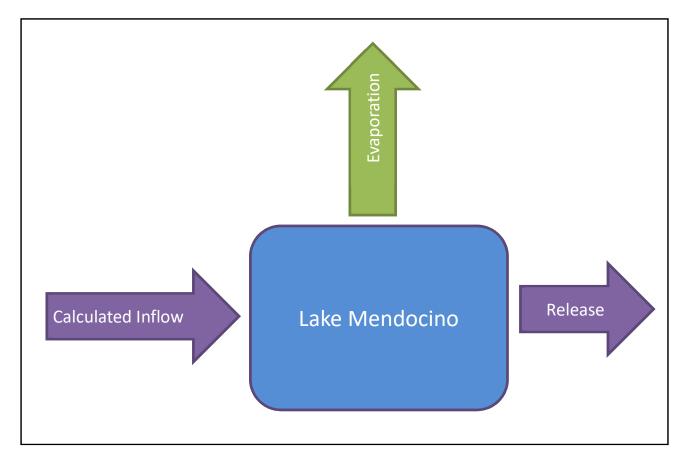
A conceptual water balance was developed for the region upstream of Lake Mendocino and is included as Attachment 1. Inflow into Lake Mendocino is either natural flow or imported water from the Potter Valley Project and measured in aggregate by two methods. First, the USGS East Fork Russian River near Calpella stream gage (USGS 11461500) lies just upstream of Lake Mendocino. This stream gage measures flow draining from the Potter Valley (including water imported by the Potter Valley Hydroelectric Project), Cold Creek, and other watersheds of the upper East Fork. Second, the USACE calculates inflow for Lake Mendocino based on a water balance for the reservoir. Figure 2 documents the components of the water balance considered in the USACE calculation. The equation for the water balance is:

$$V_{Inflow} = \left(\Delta S_{Lake\ Mendocino} + \left(V_{Release} + V_{Evaporation}\right)\right)$$

The volume of the inflow is calculated as the daily change in storage plus the volume of the reservoir release plus the calculated reservoir evaporation. This is a simplification of the complete water balance that would also include reservoir seepage and diversions by Redwood Valley County Water District, which operates a collector well capable of producing at a flowrate of approximately 25 cfs. The complete water balance balance equation is:

$$\Delta S_{Lake \ Mendocino} = \left( V_{Inflow} - \left( V_{Release} + V_{Evaporation} + V_{Seepage} + V_{Redwood \ Valley} \right) \right)$$

Figure 2: General Reservoir Water Balance for Lake Mendocino



Sonoma Water receives daily production data in monthly reports from Redwood Valley County Water District (CWD). For dry season conditions, the lack of this data for the weekly reports is inconsequential as the value in calculating inflow accurately is to assess the additional natural flow contribution for the small watersheds that surround Lake Mendocino that are downstream of the Calpella gage. The same rationale holds for the assumption that reservoir seepage is zero.

To establish the accounting of the inflow into Lake Mendocino, it is necessary to work through the components of the water balance from the upstream to downstream end. At the upstream-most portion of the East Fork, the Powerhouse Canal connects the East Fork to the Potter Valley Project's imported water from the Eel River. Sonoma Water receives daily reports from PG&E that provides the following data:

- 1) Tunnel Diversion Average Daily Flowrate from Eel River (PVP Import)
- 2) Potter Valley Irrigation District Canals Requested Flowrate
- 3) Actual Canal Release Flowrate
- 4) East Fork Release Flowrate

Diversions in Potter Valley are predominantly under the contracts of the Potter Valley Irrigation District (PVID). PVID has a water supply agreement with PG&E for PVP import water, but also holds water right License 5246, which lists its source as the Powerhouse Canal. Therefore, all water use by PVID can be assumed to be PVP import water. For our accounting, Sonoma Water will assume zero return flow from the canals back into the East Fork due to lack of data, however, this likely represents a significant source of inflow into the East Fork.

Comparing the PVP Tunnel Diversion to the East Fork Calpella gage flows, a net reach gain/loss can be calculated. A conceptual model of the reach water balance is shown in Figure 3. The net reach gain/loss term only determines the relative difference between inflows and outflows in the reach. The following approach is proposed for the following inflows and outflows:

- Tributaries There are no gaged tributaries in this reach. Sonoma Water has developed an estimation of natural flows in the watershed using the Basin Characterization Model developed by the U.S. Geological Survey.
- Direct Precipitation / Surface Runoff Assume negligible.
- Return Flows There is no available data nor a clear method to develop an estimated value of return flows on a daily basis. Assume value to be zero.
- Groundwater Discharge Assume negligible.
- Diversions Use PVID daily measurement data and eWRIMS reported data for estimated average daily water use by other water rights.
- Riparian Vegetation There is a lack of information on how riparian vegetation evapotranspiration demands vary on a daily basis. Assume value to be zero.
- Seepage Assume negligible.
- Evaporation Assume negligible.

### Lake Mendocino Reservoir Releases

Based on the above approach, the reservoir inflow of natural flow and PVP import water is calculated. To determine the components of the releases from the reservoir, it is important to characterize the state of the reservoir as collecting, withdrawing or regulation. For our approach, it is assumed that increases in storage are collection and decreases in storage are all withdrawals or release of stored water.

Under storage collection conditions, the relative priority is assumed that imported water is prioritized over natural flow for volume stored. This approach was chosen as there are fewer downstream water right holders that would be able to claim senior rights as opposed to natural flow. Under withdrawal conditions, the reservoir losses to evaporation are equally shared across the natural flow and imported water. The USACE maintains and publishes the release gage data for the Coyote Valley Dam. The natural flow and import water decrease from the inflow amounts by accounting for the shared losses and the diversion to storage amounts. The amount of stored water released is the residual of subtracting out the calculated natural flow and import water from the reservoir release.

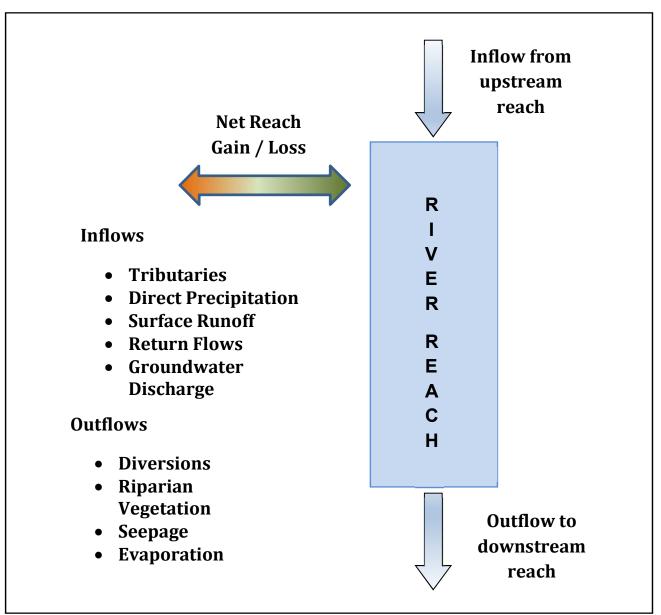


Figure 3: Reach Water Balance

Attachment 2 shows a preliminary draft of what Sonoma Water expects for the weekly report on the analysis of Lake Mendocino inflows and releases.

### Sonoma Water Rediversions of Lake Mendocino Storage Withdrawals

The determination of Sonoma Water rediversions of Lake Mendocino storage water is complicated. Sonoma Water has four water right permits (Permits 12947A, 12949, 12950 and 16596) from which to claim authorized diversions. Under water supply agreements, there are currently four other water systems that could feasibly use water under Sonoma Water's water rights. The potential diversions that could be realized from the Lake Mendocino related permit, Permit 12947A, are summarized in Table 2. Only the Town of Windsor water supply agreement is used on a continual basis. The City of Healdsburg and the communities of Camp Meeker and Occidental have a water supply agreement as a backup source for times when their water rights are deficient. For comparison, the total average summer water diversion rate for each is shown in Table 2.

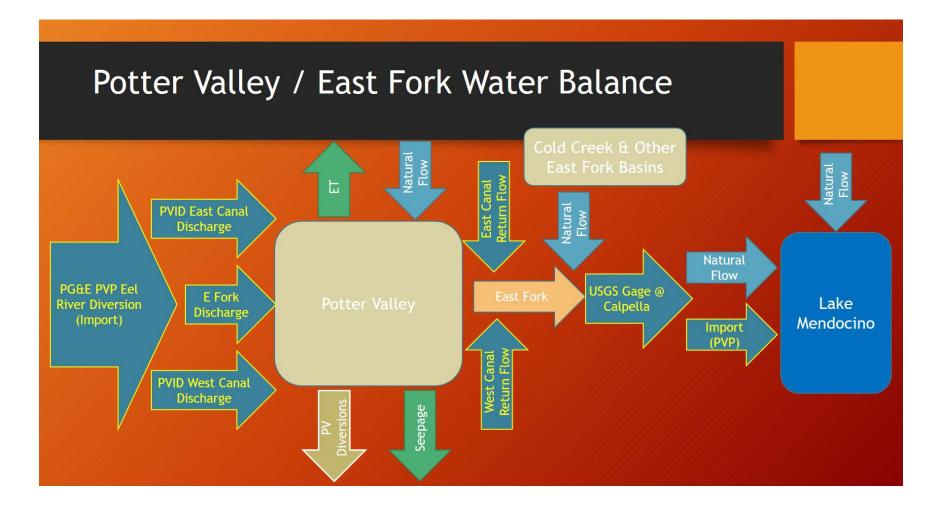
Ent	ity	POD(s)	Permit/ Agreement Max Rate (gpm)	Actual Production Capacity (gpm)	Annual Limit (ac-ft)	Typical Diversions under SCWA Rights	Summer Diversion Rate Avg. (gpm)
Sor	noma Water	Wohler & Mirabel Collector Wells	41,290	64,000	37,544	Year-round primary supply source	37,700
a)	Town of Windsor	River Wellfield	5,000	5,000	4,725	Year-round primary supply source	2,600
a)	City of Healdsburg	Gauntlett & Fitch Mountain Wellfields	4,375	2,825	425	None on Russian River; Limited use on Dry Creek from Nov 1 – Mar 31	0
a)	Camp Meeker / Occidental	River Well	100	100	35	Limited use from Nov 1 – Jun 30 under dry conditions	0

#### Table 2: Review of Potential Diversions under Sonoma Water's Water Right Permit 12947A

While the above describes the potential diversions, the actual diversions reported annually in Sonoma Water's permittee progress reports only includes diversions by Sonoma Water at its Wohler and Mirabel Production Facilities under Permit 12947A. According to these reports, Sonoma Water can appear heavily reliant on Lake Mendocino storage releases, but operationally, Sonoma Water makes release from Coyote Valley Dam to meet the demands and minimum instream flow requirements on the Upper Russian River reach only.

Alternatively, much of the diversions claimed by Sonoma Water could be assigned to another one of its water rights. By virtue of being Sonoma Water's most senior water right, diversions and rediversions are preferentially assigned to Permit 12947A through a water rights allocation program that was developed in consultation with State Water Board staff over 20 years ago. Storage releases from Lake Mendocino could be viewed as reserved for minimum instream flows in the Lower Russian River and thereby shifting how Sonoma Water diversions are claimed.

A similar net reach loss analysis could be completed for the Upper Russian River, Lower Russian River, and Dry Creek as was presented for the East Fork / Potter Valley reach. The challenge with these reaches is the drastic increase in scale of diverters, riparian evapotranspiration and tributaries. Attachment 3 presents a preliminary draft of the components of the reach water balances.



#### Attachment 2 – Example of Weekly Water Accounting Report

#### Lake Mendocino Water Accounting Weekly Report

Report Date: 3/10/2021							
Units are cfs unless noted otherwise	1	2	3	4	5	6	7
	3/3/202	l 3/4/2021	3/5/2021	3/6/2021	3/7/2021	3/8/2021	3/9/2021
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	47.0	47.0	47.0	47.0	47.0	47.0	47.0
Canals Release Request	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Canals Actual Release	1.1	2 1.2	1.1	1.2	1.1	1.1	1.2
East Fork Release	46.0	46.0	46.0	46.0	46.0	46.0	46.0
PVID PG&E Contract	1.1	2 1.2	1.1	1.2	1.1	1.1	1.2
PVID Water Right	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Canal Return Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PVID Canal Diversions	1.2	1.2	1.1	1.2	1.1	1.1	1.2
PVID E Fork Diversions	4.0	4.0	4.0	4.0	4.0	4.0	4.0
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	61.:	L 62.0	61.8	82.2	68.3	66.2	81.6
Net Reach Loss/Gain	+14.:	l +15.0	+14.8	+35.2	+21.3	+19.2	+34.6
Natural Flow							
Non-PVID East Fork Net Losses	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import	0.0	0.0	0.0	0.0	0.0	0.0	0.0
II. Lake Mendocino							
Resrvoir Operations							
Calculated Inflow (ac-ft)	136.3	3 129.8	160.2	171.2	174.4	168.9	197.8
(cfs)	69	65	81	86	88	85	100
Natural Flow	23	3 20	35	41	42	39	54
Import	46	5 46	46	46	46	46	46
Storage Change (ac-ft)	+75.0	+62.0	+100.0	+100.0	+25.0	-38.0	+25.0
(cfs)	+31	3 +31	+50	+50	+13	-19	+13
Stored Natural Flow (cfs)		2 2	6	7	2	0	1
Stored Import Water (cfs)	30	5 29	44	44	10	0	12
Evaporation (ac-ft)	7.1	7 8.4	7.0	8.4	8.4	4.2	4.2
RVCWD Diversion (ac-ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CVD Release Gage	21	7 30	27	32	71	102	85
Storage (Project Water)	1	0 0	0	0	0	19	0
Natural Flow	19	9 15	27	32	38	38	52
Import Water	100	8 15	0	0	33	45	33
East Fork Min Instream Flow Requirement	2	5 25	25	25	25	25	25
Compliance Gage	<u>Rvr mi.</u>						
CVD Release	99.9 2	7 30	27	32	71	102	85
CVD Project Water Release to Meet Min Flo	w Requirement						
Total Pass-through Water	2	7 30	27	32	71	83	85
Project Water Release Required	No	o No	No	No	No	No	No

#### Attachment 3 – Example of Additional Reach Analyses for Weekly Water Accounting Report

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	antes Disco Danah								
25. 3.5102	ssian River Reach			1212	100	1.221		1200	12
Minimum Instrea	a <mark>m Flow Requirement</mark> pliance Gage		25	25	25	25	25	25	2
Min Gage Flow			50	50	46	100	111	132	12
Controlling Gag	e	For	ks Forks	Forks	Forks	Forks	For	rs Fo	rks
All Compliance G	ages	<u>Rvr mi.</u>							
Forks	(CVD + USGS 11461000)	99.0	50	50	46	100	111	132	12
Talmage	(USGS 11462080)	96.1	72	71	66	138	134	159	16
Hopland	(USGS 11462500)	84.8	113	108	106	153	159	180	19
Cloverdale	(USGS 11463000)	70.9	133	121	119	144	177	189	20
Geyserville	(USGS 11463500)	54.4	144	134	126	142	172	171	19
Jimtown	(USGS 11463682)	48.5	153	142	130	138	162	167	18
Digger Bend	(USGS 11463980)	38.2	190	180	169	175	186	193	20
Healdsburg	(USGS 11464000)	35.6	187	179	170	175	183	192	20
CVD to Healdsbu	rg Reach Analysis								
Upper Russian	Net Reach Loss/Gain		+160	+149	+143	+143	+112	+90	+11
Total Pass-thro	ugh Water		27	30	27	32	71	83	8
	er Release to Meet Min I		nent						
	/Gain to Controlling Gage		+23	+20	+19	+68	+40	+29	+4
Project Water F	Release Required		No	No	No	No	No	No	N
IV. Lake Son	oma								
Lake Sonoma									
Storage Change	e (ac-ft)		-195.0	-155.0	-39.0	-59.0	-97.0	-136.0	+0.
	(cfs)		-98	-78	-20	-30	-49	-69	+
Evaporation (ad	c-ft)		9.8	5.4	6.5	7.6	8.7	4.3	5.
Inflow (Natural	Flow)		0	2	59	49	30	9	7
WSD Release G	age		80	78	75	75	75	75	7
Storage (Pro	oject Water)		80	75	16	26	45	66	
Natural Flov			0	2	59	49	30	9	7
Natural Flow	N		U	2	22		50	-	
Natural Flov	N		U	2	55		50		100
			U	2			50		1
/. Lower Dry (			75	75	75	75	75	75	75
/. Lower Dry ( Ainimum Instream	Creek Reach		75		75	75	75	75	75
/. Lower Dry ( Minimum Instream Controlling Complia Min Gage Flow	Creek Reach		75 80	75 78	75 58	75 75	75 75	75 75	75 75
/. Lower Dry ( <u>Ainimum Instrean</u> <u>Controlling Complia</u> Min Gage Flow Controlling Gage	Creek Reach n Flow Requirement ance Gage	WSD R	75 80	75	75 58	75 75	75 75	75 75	75 75
/. Lower Dry ( Minimum Instream Controlling Complia Min Gage Flow	Creek Reach n Flow Requirement ance Gage	WSD R <u>Crk mi.</u>	75 80	75 78	75 58	75 75	75 75	75 75	75 75
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/. Lower Dry ( Ainimum Instream iontrolling Complia Min Gage Flow Controlling Gage (I Compliance Gage WSD Release Yoakim Lambert Dry Crk Mouth VSD to Russian Rin	Creek Reach n Flow Requirement ance Gage tes (USGS 11465200) (USGS 11465240) (USGS 11465240) (USGS 11465350) ver Confluence Reach Ana-	<u>Crk mi.</u> 14.3 11.1 6.8 0.1	75 80 elease WSD Rel 80 90 90 85	75 78 Dry Crk M <i>U-IRRIFR Petit</i> 78 88 89 86	75 58 outh WSD Relea ion_TUCP2021Jan\Ri 75 82 83 58	75 75 se WSD Relea: opports/TermII(Copy 75 83 84 85	75 55 WSD Relation of river_report_oc 75 83 83 79	75 75 www.wsp.re wsp.re wsp.re wsp.re msp.re msp.re msp.re wsp.re msp.re	75 75 lease ::Term11_Wee 4/5/ 75 83 85 82
/. Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow Controlling Gage <u>ill Compliance Gag</u> <u>WSD Release</u> Yoakim Lambert Dry Crk Mouth <u>VSD to Russian Rin</u> Total Pass-throug Dry Creek Net Re	Creek Reach n Flow Requirement ance Gage tes (USGS 11465200) (USGS 11465240) (USGS 11465240) (USGS 11465350) ver Confluence Reach Ana-	<u>Crk mi</u> 14.3 11.1 6.8 0.1 alysis	75 80 WSD Rel 80 90 90 85 0 +5	75 78 Dry Crk M <i>U:\RRIFR\Petit</i> 78 88 89 86 2	75 58 oouth WSD Relea ion_TUCP2021Jon/Ri 75 82 83 58 58	75 75 se WSD Relea: aports/TermII(Copy 75 83 84 85 49	75 se WSD Relation of river_report_oc 75 83 83 79 30	75 75 wSD Re t2020_sep2021_t/s 75 83 83 79 9	75  ease ::Term11_Wee  4/5/ 75 83 85 82 75
/. Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow Controlling Gage <u>ill Compliance Gag</u> WSD Release Yoakim Lambert Dry Crk Mouth <u>VSD to Russian Rin</u> Total Pass-throug Dry Creek Net Re <u>VSD Project Wate</u>	Creek Reach n Flow Requirement ance Gage tes (USGS 11465200) (USGS 11465200) (USGS 11465240) (USGS 11465350) ver Confluence Reach Ana the Water ach Loss/Gain	<u>Crk mi</u> 14.3 11.1 6.8 0.1 alysis	75 80 WSD Rel 80 90 90 85 0 +5	75 78 Dry Crk M <i>U:\RRIFR\Peet</i> 78 88 89 86 2	75 58 oouth WSD Relea ion_TUCP2021Jon/Ri 75 82 83 58 58	75 75 se WSD Relea: aports/TermII(Copy 75 83 84 85 49	75 se WSD Relation of river_report_oc 75 83 83 79 30	75 75 wSD Re t2020_sep2021_t/s 75 83 83 79 9	75  ease ::Term11_Wee  4/5/ 75 83 85 82 75
/. Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow Controlling Gage <u>ill Compliance Gag</u> WSD Release Yoakim Lambert Dry Crk Mouth <u>VSD to Russian Rin</u> Total Pass-throug Dry Creek Net Re <u>VSD Project Wate</u>	Creek Reach n Flow Requirement ance Gage (USGS 11465200) (USGS 1146520	<u>Crk mi</u> 14.3 11.1 6.8 0.1 alysis	75 80 WSD Rel 80 90 90 85 0 +5 nt	75 78 ease Dry Crk M <i>U:\RRIFR\Peet</i> 78 88 89 86 2 +8	75 58 oouth WSD Relea ion_TUCP2021Jan (A 75 82 83 58 58 59 -17	75 75 wSD Relea: ************************************	75 75 wSD Relation of river_report_oc 75 83 83 79 30 +4	75 75 wSD Re t2020_sep2021_t/s 75 83 83 79 9 +4	75 rease *: Term11_Wee 4/5/ 75 83 85 82 75 +7
/. Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow Controlling Gage <u>ill Compliance Gag</u> WSD Release Yoakim Lambert Dry Crek Mouth <u>VSD to Russian Rin</u> Total Pass-throug Dry Creek Net Re <u>VSD Project Wate</u> Net Reach Loss/G Project Water Rei	Creek Reach n Flow Requirement ance Gage (USGS 11465200) (USGS 1146520	<u>Crk mi</u> 14.3 11.1 6.8 0.1 alysis	75 80 WSD Rel 80 90 90 85 0 +5 nt +0	75 78 ease Dry Crk M <i>U:\RRIFR\Peth</i> 78 88 89 86 2 +8 +0	75 58 oouth WSD Relea don_TUCP2021Jon (A 75 82 83 58 59 -17 -17	75 75 wSD Relea: ************************************	75 75 wSD Relation of river_report_ou 75 83 83 79 30 +4 +0	75 75 wSD Re t2020_sep2021_t/s 75 83 83 79 9 +4 +0	75 75 lease :: Term11_Wee 4/5/ 75 83 85 82 75 +7 +0
/. Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow Controlling Gage <u>ill Compliance Gag</u> WSD Release Yoakim Lambert Dry Crk Mouth <u>VSD to Russian Riv</u> Total Pass-throug Dry Creek Net Re <u>VSD Project Wate</u> Net Reach Loss/G Project Water Rei /I. Russian Riv	Creek Reach n Flow Requirement ance Gage (USGS 11465200) (USGS 114600000000000000000000000000000000000	<u>Crk mi.</u> 14.3 11.1 6.8 0.1 alysis bow Requirement luence	75 80 WSD Rel 80 90 90 85 0 +5 nt +0	75 78 ease Dry Crk M <i>U:\RRIFR\Peth</i> 78 88 89 86 2 +8 +0	75 58 oouth WSD Relea don_TUCP2021Jon (A 75 82 83 58 59 -17 -17	75 75 wSD Relea: ************************************	75 75 wSD Relation of river_report_ou 75 83 83 79 30 +4 +0	75 75 wSD Re t2020_sep2021_t/s 75 83 83 79 9 +4 +0	75 75 iease ::Term11_Wee 4/5/ 75 83 85 82 75 +7 +0
Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow     Controlling Gage <u>ill Compliance Gage     WSD Release     Yoakim     Lambert     Dry Crek Net Re     VSD Project Wate     Net Reach Loss/G     Project Wate Rei     /I. Russian Riv </u>	Creek Reach n Flow Requirement ance Gage (USGS 11465200) (USGS 11465200) (USGS 11465240) (USGS 11465240) (USGS 11465240) (USGS 11465350) ver Confluence Reach Ann r Release to Meet Min Flo Sain to Controlling Gage lease Required ver - Dry Creek Confl er Flow (Healdsburg Gage	<u>Crk mi.</u> 14.3 11.1 6.8 0.1 alysis bw Requirement luence 1	75 80 wSD Rel 80 90 90 85 0 +5 +5 +0 Yes	75 78 Dry Crk M <i>U:\RRIFR\Peete</i> 78 88 89 86 2 +8 +0 Yes	75 58 oouth WSD Relea bion_TUCP2021Jon1,Ru 75 82 83 58 59 -17 -17 Yes	75 75 se WSD Relea: pports\Term11\Copy 75 83 84 85 49 +10 +0 Yes	75 75 wSD Relation of river_report_ou 75 83 83 79 30 +4 +0	75 75 wSD Re t2020_sep2021_t/s 75 83 83 79 9 +4 +0 Yes	75 75 iease ::Term11_Wee 4/5/ 75 83 85 82 75 +7 +0
Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow     Controlling Gage <u>ill Compliance Gage     WSD Release     Yoakim     Lambert     Dry Crek Net Re     VSD Project Wate     Net Reach Loss/G     Project Wate Rei     /I. Russian Riv </u>	Creek Reach n Flow Requirement ance Gage (USGS 11465200) (USGS 114600000000000000000000000000000000000	<u>Crk mi.</u> 14.3 11.1 6.8 0.1 alysis bw Requirement luence 1	75 80 WSD Rel 80 90 90 85 0 +5 nt +0	75 78 ease Dry Crk M <i>U:\RRIFR\Peth</i> 78 88 89 86 2 +8 +0	75 58 oouth WSD Relea non_TUCP2021Jon\Ri 75 82 83 58 59 -17 -17 Yes 0	75 75 se WSD Relea: pports)TermII(Copy 75 83 84 85 49 +10 +0 Yes 0	75 75 wSD Rele of river_report_oc 75 83 83 79 30 +4 +0 Yes	75 75 wSD Re t2020_sep2021_t/s 75 83 83 79 9 +4 +0	75 75 Iease *:Term11_Wee 4/5/ 75 83 85 82 75 +7 +0 Yes
Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow Controlling Gage <u>II Compliance Gag</u> USD Release Yoakim Lambert Dry Crk Mouth <u>VSD to Russian Riv</u> Total Pass-throug Dry Creek Net Re <u>VSD to Russian Riv</u> Net Reach Loss/G Project Water Rei <u>VI</u> . Russian Riv <u>Upper Russian Riv</u> L. Mendocino Pro Natural Flow	Creek Reach n Flow Requirement ance Gage (USGS 11465200) (USGS 11465240) (USGS 11465240) (USGS 11465350) ver Confluence Reach And the Water ach Loss/Gain r Release to Meet Min Flo Sain to Controlling Gage lease Required ver - Dry Creek Confl er Flow (Healdsburg Gage spiect Water + Import Water	<u>Crk mi.</u> 14.3 11.1 6.8 0.1 alysis bw Requirement luence 1	75 80 WSD Rel 80 90 90 85 0 +5 +5 +0 Yes	75 78 ease Dry Crk M U-IRRIFR IPerit 78 88 89 86 2 +8 +0 Yes 15	75 58 oouth WSD Relea non_TUCP2021Jon\Ri 75 82 83 58 59 -17 -17 Yes 0	75 75 se WSD Relea: pports)TermII(Copy 75 83 84 85 49 +10 +0 Yes 0	75 75 se WSD Relation of river_report_oc 75 83 83 79 30 +4 +0 Yes 33	75 75 www.so.ex. www.so.ex. www.so.ex. 75 83 83 79 9 +4 +0 Yes 64	75 75 lease  4/5/ 75 83 85 82 75 +7 +0 Yes 33
Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow Controlling Gage <u>II Compliance Gag</u> USD Release Yoakim Lambert Dry Crk Mouth <u>VSD to Russian Riv</u> Total Pass-throug Dry Creek Net Re <u>VSD to Russian Riv</u> Net Reach Loss/G Project Water Rei <u>VI</u> . Russian Riv <u>Upper Russian Riv</u> L. Mendocino Pro Natural Flow	Creek Reach n Flow Requirement ance Gage tes (USGS 11465200) (USGS 11465240) (USGS 11465240) (USGS 11465350) ver Confluence Reach And the Water ach Loss/Gain r Release to Meet Min Flo cain to Controlling Gage lease Required ver - Dry Creek Confl er Flow (Healdsburg Gage iject Water + Import Water outh Gage)	<u>Crk mi.</u> 14.3 11.1 6.8 0.1 alysis bw Requirement luence 1	75 80 WSD Rel 80 90 90 85 0 +5 +5 +0 Yes	75 78 ease Dry Crk M U-IRRIFR IPerit 78 88 89 86 2 +8 +0 Yes 15	75 58 oouth WSD Relea non_TUCP2021Jon\Ri 75 82 83 58 59 -17 -17 Yes 0	75 75 se WSD Relea: pports)TermII(Copy 75 83 84 85 49 +10 +0 Yes 0	75 75 se WSD Relation of river_report_oc 75 83 83 79 30 +4 +0 Yes 33	75 75 www.so.ex. www.so.ex. www.so.ex. 75 83 83 79 9 +4 +0 Yes 64	75 75 lease  4/5/ 75 83 85 82 75 +7 +0 Yes 33
Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow Controlling Gage <u>ill Compliance Gag</u> WSD Release Yoakim Lambert Dry Crek Mouth <u>VSD to Russian Riv</u> Total Pass-throug Dry Creek Net Re <u>VSD Project Wate</u> Net Reach Loss/G Project Water Rel <u>VI pper Russian Riv</u> L Mendocino Pro Natural Flow Dry Creek Flow (M	Creek Reach n Flow Requirement ance Gage tes (USGS 11465200) (USGS 11465240) (USGS 11465240) (USGS 11465350) ver Confluence Reach And the Water ach Loss/Gain r Release to Meet Min Flo cain to Controlling Gage lease Required ver - Dry Creek Confl er Flow (Healdsburg Gage iject Water + Import Water outh Gage)	<u>Crk mi.</u> 14.3 11.1 6.8 0.1 alysis bw Requirement luence 1	75 80 WSD Rel 80 90 90 85 0 +5 +0 Yes 8 179	75 78 Dry Crk M <i>U:\RRIFR\Peet</i> 78 88 89 86 2 +8 40 Yes 15 164	75 58 oouth WSD Relea ion_TUCP2021Jon/Ri 75 82 83 58 58 59 -17 -17 Yes 0 170	75 75 see WSD Relea: pports/TermII(Copy) 75 83 84 85 49 +10 +0 Yes 0 175	75 se WSD Relation of river_report_oc 75 83 83 79 30 +4 +0 Yes 33 150	75 75 wSD Re t2020_sep2021_tij 75 83 83 79 9 +4 +0 Yes 64 128	75 75 lease <i>4/5/</i> 75 83 85 82 75 +7 +0 Yes 33 168
Lower Dry ( <u>Ainimum Instream</u> <u>iontrolling Complia</u> Min Gage Flow     Controlling Gage <u>ill Compliance Gage</u> WSD Release     Yoakim     Lambert     Dry Crk Mouth <u>VSD to Russian Riv</u> Dry Creek Net Re <u>VSD Project Water</u> Net Reach Loss/G     Project Water Rei <u>/I. Russian Riv</u> Lendocino Pro     Natural Flow <u>Iny Creek Flow (M</u> L. Sonoma Project     Natural Flow	Creek Reach n Flow Requirement ance Gage tes (USGS 11465200) (USGS 11465240) (USGS 11465240) (USGS 11465350) ver Confluence Reach And the Water ach Loss/Gain r Release to Meet Min Flo cain to Controlling Gage lease Required ver - Dry Creek Confl er Flow (Healdsburg Gage iject Water + Import Water outh Gage)	<u>Crk mi.</u> 14.3 11.1 6.8 0.1 alysis bw Requirement luence 1	75 80 WSD Rel 80 90 90 85 0 +5 179 80	75 78 ease Dry Crk M U:\RRIFR\Peet 78 88 89 86 2 +8 +0 Yes 15 164 75	75 58 oouth WSD Relea ion_TUCP2021Jan/M 75 82 83 58 59 -17 -17 Yes 0 170 16	75 75 wSD Relea: 40 75 83 84 85 49 +10 +0 Yes 0 175 26 59	75 se WSD Relation of river_report_oc 75 83 79 30 +4 +0 Yes 33 150 45	75 75 wSD Re tz020_sep2021_t/s 75 83 83 79 9 +4 +0 Yes 64 128 66	75 75 lease <i>4/5/</i> 75 83 85 82 75 +7 +0 Yes 33 168 0
Lower Dry ( <u>Ainimum Instream</u> <u>Controlling Complia</u> Min Gage Flow     Controlling Gage <u>Ul Compliance Gage</u> <u>Ul Complian</u>	Creek Reach n Flow Requirement ance Gage (USGS 11465200) (USGS 11465200) (USGS 11465200) (USGS 11465200) (USGS 11465200) (USGS 11465200) ver Confluence Reach Ana th Water ach Loss/Gain r Release to Meet Min Flo iain to Controlling Gage lease Required ver - Dry Creek Confl er Flow (Healdsburg Gage oject Water + Import Wate outh Gage) t Water	<u>Crk mi.</u> 14.3 11.1 6.8 0.1 alysis bw Requirement luence 1 r	75 80 WSD Rel 80 90 90 85 0 +5 179 80 5	75 78 ease Dry Crk M U:IRRIFRIPeen 78 88 89 86 2 +8 +0 Yes 15 164 75 11	75 58 oouth WSD Relea ion_TUCP2021Jan (A 75 82 83 58 59 -17 -17 Yes 0 170 16 42	75 75 wSD Relea: 40 75 83 84 85 49 +10 +0 Yes 0 175 26 59	75 se WSD Reli of river_report_ou 75 83 83 79 30 +4 +0 Yes 33 150 45 34	75 75 wSD Re t2020_sep2021_t/s 75 83 83 79 9 +4 +0 Yes 64 128 66 12	75 75 lease :: Term11_Wee 4/5/ 75 83 85 82 75 +7 +0 Yes 33 168 0 82
Lower Dry ( <u>Ainimum Instream</u> <u>Controlling Complia</u> Min Gage Flow     Controlling Gage <u>Ul Compliance Gage</u> <u>Ul Complian</u>	Creek Reach n Flow Requirement ance Gage tes (USGS 11465200) (USGS 11465200) (USGS 11465240) (USGS 11465350) ver Confluence Reach Ana th Water ach Loss/Gain r Release to Meet Min Flo ain to Controlling Gage lease Required ver - Dry Creek Confl er Flow (Healdsburg Gage oject Water + Import Water outh Gage) t Water	<u>Crk mi.</u> 14.3 11.1 6.8 0.1 alysis bw Requirement luence 1 r	75 80 WSD Rel 80 90 90 85 0 +5 179 80 5 272	75 78 ease Dry Crk M U:(RRIFR(Peet 78 88 89 86 2 +8 40 Yes 15 164 75 11 265	75 58 oouth WSD Relea don_TUCP2021Jon/M 75 82 83 58 59 -17 -17 Yes 0 170 16 42 228	75 5e WSD Relea: sports/Term11(Copy 75 83 84 85 49 +10 +0 Yes 0 175 26 59 260	75 75 se WSD Relation of river_report_ou 75 83 83 79 30 +4 +0 Yes 33 150 45 34 262	75 75 wSD Re t2020_sep2021_t/s 75 83 83 79 9 +4 +0 Yes 64 128 66 12 271	75 75 lease :: Term11_Wee 4/5/ 75 83 85 82 75 +7 +0 Yes 33 168 0 82 283

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	ge jages (USGS 11465390)	<u>Rvr mi.</u>	2 Hacienda	60										
Controlling Gag <u>All Compliance G</u> Windsor Hacienda <u>Confluence to W</u>	ge <u>iages</u> (USGS 11465390)	Rvr mi.	-	60										
All Compliance G Windsor Hacienda Confluence to W	<u>ages</u> (USGS 11465390)	Rvr mi.	Hacienda		248		232		246	249		256	8	262
Windsor Hacienda Confluence to W	(USGS 11465390)	Rvr mi.		Ha	acienda	Hacienda		Hacienda	Hacienda		Hacienda	1	Hacienda	
Hacienda Confluence to W														
Confluence to W	California de trata d	26.6		-		÷	24		(*)	2.4		- 80		13
	(USGS 11467000)	21.8	2	60	248		232		246	249		256	2	262
Net Reach Loss	indsor Reach Analysis													
	/Gain to Windsor Gage			-	÷	-	÷		-			~		- 35
L. Mendocino F	Project Water + Import W	/ater		3	10	ι	0		0	29		59		29
L. Sonoma Proj	ect Water			80	75		16		26	45		66		0
Natural Flow			1	.84	175		207		230	184		140	3	250
Confluence to SC	WA Wohler Production	Facility Rea	ach Analysis											
Approx. Flow u/s	of Wohler		3	29	310		299		307	307		321	1	330
Net Reach Loss	/Gain		+	57	+45		+71		+47	+45		+51		+47
L. Mendocino F	Project Water + Import W	/ater		8	15		0		0	33		64		33
L. Sonoma Proj	ect Water			80	75		16		26	45		66		0
Natural Flow			2	41	220	i i	283		281	229		191	3	297
Confluence to H	acienda (Guerneville) Re	ach Analys	is											
Net Reach Loss	/Gain			12	-17		+4		-14	-13		-15		-21
L. Mendocino F	Project Water + Import W	/ater		0	C		0		0	0		0		0
L. Sonoma Proj	ect Water			19	28		0		0	20		65		0
Natural Flow			2	41	220		232		246	229		191		262
Production a	nd Water Rights Di	versions												
	on under Agency Rights (													
Lower Russian Ri	iver													
Sonoma Water	Total		137	7.6	122.5	1	33.5	1	21.4	14.9	1	29.2	13	5.7
	Wohler		8:	1.6	81.8		76.8		62.2	45.5		71.8	5	9.5
	Mirabel		56	5.0	40.7		56.7		59.2	69.4		57.4	7	6.2
Town of Winds	or River Wellfield		4	4.8	5.0		4.9		4.5	4.5		4.7		4.6
Camp Meeker & Occidental		(	0.0	0.0		0.0		0.0	0.0		0.0		0.0	
Upper Russian Ri														
City of Healdsb	Gauntlett & Fitch M		6				0.0		0.0	0.0		0.0		0.0
Dev Creati	Gauntiett & Fitch M	un	3	0.0	0.0		0.0		0.0	0.0		0.0		0.0
Dry Creek														
City of Healdsb	Dry Creek Wellfield		6	0.0	0.0		0.0		0.0	0.0		0.0		0.0