

United States Department of the Interior

BUREAU OF RECLAMATION

Central Valley Operations Office 3310 El Camino Avenue, Suite 300 Sacramento, California 95821

FEB 1 2 2015

IN REPLY REFER TO:

CVO-400 WTR-4.10

Ms. Barbara Evoy Deputy Director, Division of Water Rights State Water Resources Control Board P.O. Box 2000 Sacramento, CA 95812

Subject: Monitoring and Reporting Program on Water Rights Order No. 90-5

Dear Ms. Evoy:

For the month of January, the temperature control point was set at Clear Creek, per the recommendation of the Sacramento River Temperature Task Group.

During January 2015, the average daily water temperature compliance of 56.0° F or less was met at the Clear Creek compliance point on the Sacramento, and the average monthly water temperature at Fat Clear Creek was maintained at 50.8°F.

Enclosed is the monitoring report for January 2015, under Order No. 90-5. The report contains the following data:

Station	Description
Shasta Inlets (R-1)	Water Temperature Profile Turbidity, monthly, ntu
Shasta Dam (R-2)	Water Temperature, daily average, degrees F Turbidity, ntu, monthly
Shasta Dam (R-2a)	Flow, average daily, cfs
Keswick (R-3)	Water Temperature, daily average, degrees F Turbidity, ntu, monthly
Keswick (R-3a)	Flow, average daily, cfs
Spring Creek Power plant (R-4)	Water Temperature, daily average, degrees F Turbidity, ntu, monthly Flow, average daily cfs

Station **Description** Water Temperature, daily average, degrees F Jellys Ferry (R-5) (Control Point) Turbidity, ntu, monthly Water Temperature, monthly, degrees F Sacramento at Turbidity, ntu, monthly Delta (R-6) Water Temperature, monthly, degrees F McCloud (R-7) Turbidity, ntu, monthly Water Temperature, monthly, degrees F Pit River (R-8) Turbidity, ntu, monthly Lewiston (R-9) Water Temperature, daily average, degrees F Lewiston (R-9a) Flow, average daily, cfs

Please contact Ms. Thuy Washburn at 916-979-2193, should you have any questions regarding this data.

Sincerely,

Elizabeth Kiteck

Chief Water Operations

Elizabeth Witeck

Enclosures

cc: Mr. Kenneth Emanuel Division of Water Rights

State Water Resources Control Board

P.O. Box 2000

Sacramento, CA 95812

(w/encl)

Central Valley Operations Office

- *Data obtained from the California Data Exchange Center
- **Data calculated by the Central Valley Operations Office
- ***Measurements taken by the Northern CA Area Office Personnel

Water Temperature Data in Degrees F January 2015

Req. Sampling Frequency - Daily Average Control Pt (Reading indicates daily average) 1/1 to 1/31							Req. Sampling Frequency - Monthly				
(Read	Sta 2	Sta 3	Sta 4	1/1 to 1/31 Sta 5	Sta9		1	Sta 6	Sta 7	Sta 8	
Date	Shd*	Kwk*	Spp**	Ccr**	Lws*			Dit***	Mss***	Pmn**	
1	51.8	50.6	52.2	49.9	45.4						
2	51.5	50.8	51.0	49.9	44.9						
3	51.2	50.8	51.5	50.2	44.4						
4	51.0	50.9	51.0	50.6	44.6						
5	51.0	50.9	50.3	50.7	44.7						
6	51.2	50.9	50.2	50.9	44.8				N Y		
7	51.1	50.8	No Data	50.9	44.6				43.3		
8	51.1	51.0	50.3	50.7	44.9				4		
9	51.0	51.1	50.1	51.1	45.1						
10	50.9	51.1	50.1	51.1	45.3						
11	50.7	51.2	49.9	51.1	45.3						
12	50.7	51.1	No Data	51.4	45.5						
13	50.7	51.0	No Data	51.2	45.2					42.4	
14	50.6	50.8	No Data	50.6	44.9						
15	50.7	50.6	50.4	50.4	45.5						
16	50.8	50.6	49.8	50.6	46.0						
17	50.7	50.6	49.6	51.0	46.4						
18	50.8	50.7	49.7	51.1	46.5						
19	50.7	50.7	49.7	51.1	46.1						
20	50.7	50.6	49.5	50.8	45.9						
21	50.6	50.5	50.5	50.8	45.8						
22	50.5	50.4	50.4	50.8	45.9						
23	50.6	50.4	49.8	50.8	46.1						
24	50.6	50.5	49.7	51.3	46.4						
25	50.6	50.5	50.5	51.1	46.6						
26	50.4	50.7	50.4	51.0	46.9						
27	50.5	50.8	50.0	51.0	47.2			46.4			
28	50.4	50.8	49.7	51.1	46.9						
29	50.5	50.6	49.8	51.0	46.9						
30	50.5	50.6	50.1	51.1	47.0						
31	50.5	50.6	50.1	50.8	46.9						

Control Point: 56.0 degrees at Balls Ferry from 03/01/2014 to 03/27/2014.
58.0 degrees at Clear Creek from 03/28/2014 to 04/24/2014.
56.0 degrees at Clear Creek from 04/25/2014 to 1/31/2015.

Cross Channel Gate Operation:

January 1-31 closed

Note: Spring Creek Powerplant (SPP) stopped transmitting on 12-28-2014. Data logger is being downloaded. Several data gaps exist. Site transmitting again on 1/27/2015.

Measurements taken by the Northern CA Area Office Personnel January 2015

TEMPERATURE

Sampling Frequency
Every two weeks May 1 through November 30.

	Sample 1	Sample 2	Sample 3	Sample 4
	1/6/2015			
Lake Elev	Temperature	Temperature	Temperature	Temperature
MSL	Degrees F	Degrees F	Degrees F	Degrees F
	(40	00 Feet Upstream of Da	am)	
	Time: 11:30			
625	48.5			
650	48.6			
675	48.6			
700	48.7			
725	48.8			
750	49.1			
775	49.7			
800	50.0			
825	50.4			
850	50.9			
875	51.2			
900	51.2			
925	51.2			
950	51.3			
975				
1000				
1025				
1050				
Lake Surface	951.69' 51.3			

TURBIDITY

Sampling Frequency
Monthly, except weekly May 1 through Sep 30, when turbidity at Station 2 is equal to or greater than 10 NTU

	Sample 1	Sample 2	Sample 3	Sample 4
	1/6/2015	177		
Lake Elev	Turbidity	Turbidity	Turbidity	Turbidity
MSL	ntu	ntu	ntu	ntu
	(400	Feet Upstream of Da	am)	
	Time: 11:30			
625	12.6			
650	12.4			
675	12.4			
700	12.0			
725	12.0			
750	11.6			
775	12.8			
800	13.3			
825	16.1			
850	26.2			
875	28.6			
900	28.1			
925	28.3			
950	27.2			
975				
1000				
1025				
1050				
Lake Surface	951.69' 27.06			

Central Valley Operations Office Measurements taken by the Northern CA Area Office Personnel

Summary of Turbidity and Dissolved Oxygen Water Sampling January 2015

Turbidity Measurements, NTU

Sampling Frequency

Monthly, except weekly from May 1 through September 30, when turbidity at Station 2 is equal to or greater than 10 NTU.

Station

	R-2	R-3a	R-4	R-5	R-6	R-7	R-8	
	Shasta Dam		Spring	Clear Creek				
	Discharge	Keswick	Creek PP	Control Point	Sacramento	McCloud	Pit	
Day	at Bridge	Discharge	Discharge	1/1 to 1/31	River (DLT)	River	River	
7						1.4		
8				22.4				
13							5.7	
15	21.3		1.7					
26		17.3						
27					0.5			
		j j						

Dissolved Oxygen, mg/l

Sampling Frequency

Every two weeks from May 1 through September 30; samples to be taken before 1000 hours.

Station

R-2	R-3	R-5		
Shasta Dam			Hour	
Discharge	Keswick		Time Sample	
at Bridge	Discharge	Clear Creek	Taken	
No Requiren	nent October	through April		
	Shasta Dam Discharge at Bridge	Shasta Dam Discharge Keswick at Bridge Discharge	Shasta Dam Discharge Keswick	

Temperature Control Point:

56.0 degrees at Balls Ferry from 03/01/2014 to 03/27/2014.

58.0 degrees at Clear Creek from 03/28/2014 to 04/24/2014.

56.0 degrees at Clear Creek from 04/25/2014 to 1/31/2015.

UNITED STATES DEPARTMENT OF THE INTERIOR U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

RUN DATE: February 5, 2015

SHASTA LAKE, DAM AND POWERPLANT

QG GENERATION RELEASE, CFS

WATER YEAR OCTOBER 2014 TO SEPTEMBER2015

DAY	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,560	2,718	3,566	2,892								
2	1,679	2,423	3,348	2,079								
3	1,082	4,236	2,346	3,469								
4	1,059	4,576	3,089	2,624								
5	1,426	4,669	3,132	2,979								
6	1,647	4,864	2,135	2,181								
7	1,511	4,950	1,989	2,654								
8	2,679	4,736	2,685	2,828								
9	3,874	4,876	2,767	3,081								
10	4,003	4,855	763	3,047								
11	3,435	4,221	296	3,068								
12	3,015	4,796	710	3,064								
13	3,726	4,469	1,719	4,159								
14	3,496	4,828	765	3,504								
15	4 ,156	4,621	1,510	2,374								
16	3,146	4,289	1,887	2,705								
17	3,618	4,151	2,167	2,413								
18	3,358	4,209	712	2,676								
19	3,309	3,526	214	4,264								
20	2,894	3,499	1,252	3,002								
21	2,876	4,345	1,780	2,849								
22	3,540	3,900	2,119	1,750								
23	4,896	4,292	1,739	3,308								
24	2,343	3,838	531	3,517								
25	2,453	3,537	833	1,984								
26	4,158	3,784	1,638	2,219								
27	4,106	3,682	1,345	4,244								
28	4,414	3,803	1,384	2,099								
29	2,666	3,601	2,135	3,614								
30	2,337	3,771	2,568	3,519								
31	4,519		2,705	3,610								
TOTAL	92,981	124,065	55,829	91,776								
MEAN	2,999	4,136	1,801	2,961								
MAX	4,896	4,950	3,566	4,264								
MIN	1,059	2,423	214	1,750								
					MACATE	D VEAD TOT	TALO					

TOTAL	364,651	
DAILY MEAN	2,965	
DAILY MAX	4,950	11/07/2014
DAILY MIN	214	12/19/2014

UNITED STATES DEPARTMENT OF THE INTERIOR U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

RUN DATE: February 5, 2015

KESWICK DAM, RESERVOIR, AND POWERPLANT

QT

TOTAL RELEASE, CFS

WATER YEAR OCTOBER 2014 TO SEPTEMBER2015

1 2 3 4 5 6 7 8 9 10 11 12	4,500 4,647 4,409 4,403 4,395 4,504 4,462 4,542 4,490 4,512 4,545 4,535 4,536 4,544 4,521	4,519 4,520 4,549 4,606 4,495 4,454 4,406 4,400 4,394 4,373 4,267 4,162 4,144 4,127	3,849 3,450 3,375 3,308 3,326 3,310 3,306 3,196 3,190 3,066 4,723 4,178 3,909	2,991 2,966 2,963 2,985 2,967 2,967 2,940 2,940 3,003 3,179 3,168 3,180				
3 4 5 6 7 8 9 10 11 12 13	4,409 4,403 4,395 4,504 4,462 4,542 4,490 4,512 4,545 4,535 4,536 4,544	4,549 4,606 4,495 4,454 4,406 4,400 4,394 4,373 4,267 4,162 4,144 4,127	3,375 3,308 3,326 3,310 3,306 3,196 3,190 3,066 4,723 4,178 3,909	2,963 2,985 2,967 2,967 2,940 2,940 3,003 3,179 3,168 3,180				
4 5 6 7 8 9 10 11 12 13	4,403 4,395 4,504 4,462 4,542 4,490 4,512 4,545 4,535 4,536 4,544	4,606 4,495 4,454 4,406 4,400 4,394 4,373 4,267 4,162 4,144 4,127	3,308 3,326 3,310 3,306 3,196 3,190 3,066 4,723 4,178 3,909	2,985 2,967 2,967 2,940 2,940 3,003 3,179 3,168 3,180				
5 6 7 8 9 10 11 12 13	4,395 4,504 4,462 4,542 4,490 4,512 4,545 4,535 4,536 4,544	4,495 4,454 4,406 4,400 4,394 4,373 4,267 4,162 4,144 4,127	3,326 3,310 3,306 3,196 3,190 3,066 4,723 4,178 3,909	2,967 2,967 2,940 2,940 3,003 3,179 3,168 3,180				
6 7 8 9 10 11 12	4,504 4,462 4,542 4,490 4,512 4,545 4,535 4,536 4,544	4,454 4,406 4,400 4,394 4,373 4,267 4,162 4,144 4,127	3,310 3,306 3,196 3,190 3,066 4,723 4,178 3,909	2,967 2,940 2,940 3,003 3,179 3,168 3,180				
7 8 9 10 11 12 13	4,462 4,542 4,490 4,512 4,545 4,535 4,536 4,544	4,406 4,400 4,394 4,373 4,267 4,162 4,144 4,127	3,306 3,196 3,190 3,066 4,723 4,178 3,909	2,940 2,940 3,003 3,179 3,168 3,180				
8 9 10 11 12 13	4,542 4,490 4,512 4,545 4,535 4,536 4,544	4,400 4,394 4,373 4,267 4,162 4,144 4,127	3,196 3,190 3,066 4,723 4,178 3,909	2,940 3,003 3,179 3,168 3,180				
9 10 11 12 13	4,490 4,512 4,545 4,535 4,536 4,544	4,394 4,373 4,267 4,162 4,144 4,127	3,190 3,066 4,723 4,178 3,909	3,003 3,179 3,168 3,180				
10 11 12 13	4,512 4,545 4,535 4,536 4,544	4,373 4,267 4,162 4,144 4,127	3,066 4,723 4,178 3,909	3,179 3,168 3,180				
11 12 13	4,545 4,535 4,536 4,544	4,267 4,162 4,144 4,127	4,723 4,178 3,909	3,168 3,180				
12 13	4,535 4,536 4,544	4,162 4,144 4,127	4,178 3,909	3,180				
13	4,536 4,544	4,144 4,127	3,909					
13	4,544	4,127						
			2 000	3,179				
14 15	4,521	A 177	3,862	3,172				
		4,177	3,854	3,066				
16	4,545	4,110	3,054	2,911				
17	4,533	4,015	3,062	2,910				
18	4,538	3,992	3,281	2,914				
19	4,533	3,924	3,558	2,911				
20	4,535	3,928	3,467	2,912				
21	4,528	3,958	3,305	2,868				
22	4,528	3,989	3,072	2,866				
23	4,540	3,933	3,125	2,865				
24	4,527	3,959	3,067	2,815				
25	4,504	3,976	3,024	2,815				
26	4,420	3,987	3,040	2,815				
27	4,449	3,981	3,038	2,812				
28	4,450	3,982	3,042	2,816				
29	4,443	3,985	3,040	2,828				
30	4,449	3,982	3,016	2,981				
31	4,503		2,991	3,090				
TOTAL	139,570	125,294	104,084	91,795				
MEAN	4,502	4,176	3,358	2,961				
MAX	4,647	4,606	4,723	3,180				
MIN	4,395	3,924	2,991	2,812				

TOTAL	460,743	
DAILY MEAN	3,746	
DAILY MAX	4,723	12/11/2014
DAILY MIN	2.812	01/27/2015

UNITED STATES DEPARTMENT OF THE INTERIOR U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

RUN DATE: February 5, 2015

LEWISTON DAM, LAKE, AND JUDGE FRANCIS CARR POWERPLANT

QR

RELEASE TO RIVER, CFS

WATER YEAR OCTOBER 2014 TO SEPTEMBER2015

1 490 315 312 299 2 494 301 312 302 3 512 317 312 309 4 517 312 309 301 5 517 301 310 303 6 498 304 310 302 7 487 305 310 299 8 488 303 311 300 10 486 303 311 300 11 474 303 310 302 11 474 303 310 302 11 474 303 310 302 11 474 303 310 302 11 474 303 310 302 11 474 303 310 302 11 474 303 310 302 11 474 303 310 302 11 474 303 310 302 12 454 303 312 301 13 450 304 310 301 14 452 305 305 305 304 15 399 306 308 304 16 370 307 312 304 17 311 309 314 304 18 303 311 313 304 18 303 311 313 304 19 302 310 317 304 20 305 308 315 304 21 298 310 307 302 308 21 292 309 302 305 23 307 309 301 306 24 320 311 307 302 309 25 323 307 309 301 306 26 318 307 302 309 27 318 307 302 309 28 317 310 301 307 29 317 310 301 307 29 317 310 301 307 29 317 310 301 307 31 316 301 308 MMAX 517 317 317 317 309	DAY	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
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6	4	517	312	309	301							
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22 292 309 302 305 23 307 309 301 306 24 320 311 301 307 25 323 307 302 309 26 318 307 302 309 27 318 307 302 308 28 317 310 301 307 29 317 310 301 305 30 315 310 298 307 31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	20	305	308	315	304							
23 307 309 301 306 24 320 311 301 307 25 323 307 302 309 26 318 307 302 309 27 318 307 302 308 28 317 310 301 307 29 317 310 301 305 30 315 310 298 307 31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	21	298	310	304	305							
24 320 311 301 307 25 323 307 302 309 26 318 307 302 309 27 318 307 302 308 28 317 310 301 307 29 317 310 301 305 30 315 310 298 307 31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	22			302								
25 323 307 302 309 26 318 307 302 309 27 318 307 302 308 28 317 310 301 307 29 317 310 301 305 30 315 310 298 307 31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	23	307	309	301	306							
25 323 307 302 309 26 318 307 302 309 27 318 307 302 308 28 317 310 301 307 29 317 310 301 305 30 315 310 298 307 31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	24	320	311	301	307							
27 318 307 302 308 28 317 310 301 307 29 317 310 301 305 30 315 310 298 307 31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	25	323	307	302	309							
28 317 310 301 307 29 317 310 301 305 30 315 310 298 307 31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	26											
29 317 310 301 305 30 315 310 298 307 31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	27											
30 315 310 298 307 31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	28				307							
31 316 301 308 TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304			310	301	305							
TOTAL 12,238 9,222 9,538 9,418 MEAN 395 307 308 304	30	315	310	298	307							
MEAN 395 307 308 304	31	316		301	308							
	TOTAL	12,238	9,222	9,538	9,418							
MAX 517 317 317 309	MEAN	395	307	308	304							
	MAX	517	317	317	309							
MIN 292 301 298 299	MIN	292	301	298	299							

TOTAL	40,416	
DAILY MEAN	329	
DAILY MAX	517	10/04/2014
DAILY MIN	292	10/22/2014

UNITED STATES DEPARTMENT OF THE INTERIOR U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

RUN DATE: February 5, 2015

WHISKEYTOWN DAM, LAKE, AND SPRING CREEK POWERPLANT

QG

GENERATION RELEASE, CFS

WATER YEAR OCTOBER 2014 TO SEPTEMBER2015

DAY	ОСТ	NOV	DEC	JAN	FEB MAR	FEB MAR APR	FEB MAR APR MAY	FEB MAR APR MAY JUN	FEB MAR APR MAY JUN JUL	FEB MAR APR MAY JUN JUL AU	FEB MAR APR MAY JUN JUL AUG	FEB MAR APR MAY JUN JUL AUG
1	545	2,062	218	14								
2	510	2,150	15	349								
3	654	965	1,016	14								
4	689	19	18	27								
5	646	14	14	86								
6	704	14	746	309								
7	849	14	665	14	9.	9.	*	×	9	X	×	×
8	761	14	228	14								
9	660	14	727	15								
10	676	14	1,586	14								
11	1,266	14	699	17								
12	1,240	14	1,981	14								
13	1,056	14	1,536	15								
14	997	18	2,067	378								
15	585	14	2,132	17								
16	1,185	92	1,723	23								
17	1,106	18	28	16								
18	1,154	14	1,849	14								
19	1,012	97	1,374	16								
20	1,570	64	1,254	93						*	*	
21	1,620	991	299	14								
22	1,662	14	572	14								
23	1,235	14	805	373								
24	2,019	15	1,938	288								
25	2,068	14	2,143	14								
26	1,018	14	770	14								
27	476	14	1,321	14								
28	178	14	2,069	14								
29	1,439	159	685	19								
30	2,111	14	17	16								
31	718		14	15								
TOTAL	32,409	6,902	30,509	2,254								
MEAN	1,045	230	984	73								
MAX	2,111	2,150	2,143	378								
MIN	178	14	14	14								
101114	173	1-7		17	:4/4TED \/E4D TOT	WATER VEAR TOTAL C	VEAD TOTAL O	WAR TO THE TOTAL O	WARRANT VIEW POTALO	WARRING VIDA B PARAL A	WANTE WAS BOARD O	

TOTAL	72,074	
DAILY MEAN	586	
DAILY MAX	2,150	11/02/2014
DAILY MIN	14	11/05/2014