



May 15, 2017

Via e-mail to:

CWFhearing@waterboards.ca.gov

Hearing Chair Tam Doduc  
Hearing Officer Felicia Marcus  
State Water Resources Control Board  
P.O. Box 100  
Sacramento, CA 95812-0100

Re: Submission of Exhibit List for Entry of Exhibits into Evidence

Dear Hearing Chair Doduc and Hearing Officer Marcus:

The California Department of Water Resources (DWR) submits the attached index of exhibits that were moved into evidence on May 12, 2017 during the rebuttal phase of Part 1 of the water rights hearing for the CA WaterFix. DWR respectfully requests that you accept into evidence the exhibits listed on the attached index. Thank you for your consideration.

Sincerely,

A handwritten signature in blue ink, appearing to read "Robin McGinnis".

Robin McGinnis  
Attorney  
Office of the Chief Counsel  
CA Department of Water Resources

cc: Electronic Service  
Tom Howard, Executive Officer, State Water Resources Control Board  
Michael Lauffer, Chief Counsel, State Water Resources Control Board  
Electronic service list

*Personal Service via U.S. Postal Service*  
Suzanne Womack and Sheldon Moore  
Clifton Court, L.P.  
3619 Land Park Drive  
Sacramento, CA 95818

## DWR EXHIBIT LIST SUBMITTED FOR ENTRY INTO EVIDENCE

Exhibit Identification Number	Exhibit Description
DWR-6-Errata	PPT - John B
DWR-7	PPT - Maureen
DWR-8-Errata	PPT - Mike
DWR-9	PPT - Doug Owen
DWR-10	PPT - John L
DWR-15	SOQ - Doug O
DWR-16	SOQ - Ellen
DWR-23	SOQ - Chris T
DWR-25	SOQ - Joel K
DWR-31	SOQ - Chandra
DWR-50	PPT - Parviz
DWR-50-Errata	Corrected graphics for DWR-50 slides 9-11
DWR-74	Testimony - Praba
DWR-75	Testimony - John B
DWR-76	Testimony - Sergio V
DWR-77	Testimony - Maureen
DWR-78	Testimony - John L
DWR-79	Testimony - Parviz
DWR-79-Errata	Corrected graphics for DWR-79 Figures 2-4
DWR-80	Testimony - Gwen
DWR-81	Testimony - Mike
DWR-82	Testimony - Doug O
DWR-83	Testimony - Ellen
DWR-84	Testimony - Chris T
DWR-85	Testimony - Joel K
DWR-86-Errata	Testimony - Armin M
DWR-87	Testimony - Chandra
DWR-500	May 25, 2016 Petitioners' letter "Physical Modeling to Support CWF Water Right Petition" and Modeling file attachments
DWR-650	CDEC excerpt
DWR-651	WQ report Sac
DWR-652	WQ report Sktn
DWR-653	WQ report HAB
DWR-656	July 2016 Biological Assessment for California WaterFix, Appendix 3E
DWR-657	USACE's Engineering Circular, EC 1165-2-216
DWR-658	2014 Annual Average Daily Truck Traffic on the California Highway System, Caltrans
DWR-659	February 2017 Assessment of Potential Water Leakage Rates from California WaterFix Tunnel

Exhibit Identification Number	Exhibit Description
DWR-660	Existing Water Diversions at the Proposed Intake Sites
DWR-661	January 2009 DHCCP Flood Elevations and Protection
DWR-670	CALSIM modeling
DWR-671	Email from Erik Reyes to Junaid As-Salek and Nancy Parker RE: MBK Suggestions on CS3 San Luis operations
DWR-672	MBK Engineers Technical Memorandum, July 16, 2015; Improvements to CalSim San Luis Operations by Dan Easton
DWR-700	Amy et al. 1998. Empirically based models for predicting chlorination and ozonation by-products
DWR-701	Bartram and Rees. 2000. A practical guide to the design and assessments of monitoring programs
DWR-702	Baxa et al. 2010. Estimating the abundance of toxic microcystis in the San Francisco Estuary
DWR-703	Berg and Sutula 2015
DWR-704	Bureau of Reclamation 2005_Folsom Lake 2005 Sedimentation Survey
DWR-705	Chorus and Cavalieri. 2000
DWR-706	Chowdhury et al 2009 Models for Predicting Disinfection Byproduct
DWR-707	CITYSAC 2013 2012 CCR
DWR-708	Elliot. 2010. The seasonal sensitivity of cyanobacteria and other phytoplankton
DWR-709	Gibble and Kudela 2014. Detection of persistent MC toxins at the land sea interface in Monterey Bay California
DWR-710	Glibert 2011
DWR-711	Hong et al. 2007
DWR-712	Huisman et a. 2004. Changes in turbulent mixing shift composition for light between phytoplankton species
DWR-713	Huisman et al. 1999
DWR-714	Jassby 2005. Phytoplankton regulation in a eutrophic tidal river (San Joaquin California)
DWR-715	Kudela 2015. Application of hyperspectral remote sensing to cyanobacterial blooms in inland waters
DWR-716	Kurobe et al. 2013. Identification of harmful cyanobacteria in the Sac San Joaquin Delta and Clear Lake
DWR-717	Lehman et al. 2008. The influence of environmental conditions on seasonal variation of microcystis abundance and MCs

<b>Exhibit Identification Number</b>	<b>Exhibit Description</b>
DWR-718	Lehman et al. 2010. Initial impacts of microcystis aeruginosa on the aquatic food web in the SFE
DWR-719	Lehman et al. 2013. Long term trends and causal factors associated with Microcystis abundance
DWR-720	Lehman et al. 2017
DWR-721	Lehman et al. 2005. Distribution and toxicity of a new colonial M. aeruginosa bloom in the San Francisco Bay Estuary
DWR-722	Lehman et al. 2015. Characterization of the microcystis bloom and its nitrogen supply in SFE using stable isotopes
DWR-723	Levine and Whalen. 2001. Nutrient limitation of phytoplankton production in Alaskan Arctic foothill lakes
DWR-724	Li et al 2013 Sci Total Environ Effects of flow velocity on phytoplankton biomass and composition in a freshwater lake
DWR-725	Litchman. 1998. Light and phytoplankton
DWR-726	Lurling et al FWB 2013. Comparison of cyanobacterial and green algal growth rates at different temperatures
DWR-727	Marmen et al. 2016. Distribution and habitat specificity of potentially-toxic microcystis across gradients
DWR-728	Mioni and Kudela. 2011. Harmful cyanobacteria blooms and their toxins
DWR-729	Mission and Latour. 2012. Influence of light, sediment mixing, temperature and duration of the benthic life phase
DWR-730	Mitrovic et al. 2011. Use of flow management to mitigate cyanobacterial blooms in the lower Darling River, Australia
DWR-731	Mur et al. 1999
DWR-732	O'Brien 2004. Disaggregation of microcystis aeruginosa colonies under turbulent mixing, laboratory experiments
DWR-733	Paerl and hulsman.2009. Climate change and cyanobacteria
DWR-734	Paerl et al. 2001. Harmful freshwater algal blooms with an emphasis on cyanobacteria.
DWR-735	Paerl et al. 2014. Controlling cyanobacterial blooms in hypereutrophic lake taihu china
DWR-736	Pesticide sheets
DWR-737	Preece et al. 2017
DWR-738	Reynolds. 1983. A physiological interpretation of the dynamic responses of populations of a planktonic diatom

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Exhibit Identification Number	Exhibit Description
DWR-739	Reynolds. 2006. The ecology of phytoplankton
DWR-740	Rodriguez et al 2000.TTHM models
DWR-741	Rolland et al. 2013. Extreme variability of cyano blooms in an urban drinking water supply
DWR-742	Romo et al. 2013. Water residence time and the dynamics of toxic cyanobacteria
DWR-743	Schindler et al. 2008. Eutrophication of Lakes Cannot Be Controlled by Reducing nitrogen inputs
DWR-744	Sohn et al. 2004
DWR-745	Spier et a. 2013. Unprecedented bloom of toxin-producing cyanobacteria in the Southern Bay-Delta Estuary
DWR-746	Tsuji-mura and Okubo 2003. Development of Anabaena blooms in a small reservoir with dense sediment akinete population
DWR-747	USEPA and CVRWQCB 2015_8-delta-opp-tmdl-implementation-report-2015-06-15
DWR-748	Uyak et al 2005
DWR-749	Verspagen et al. 2004. Recruitment of benthic microcystis (cyanophyceae) to the water column-internal
DWR-750	Visser et al. 1996. Artificial mixing prevents nuisance blooms of the cyanobacterium microcystis
DWR-751	Visser et al. 2016 How rising CO2 and global warming may stimulate harmful cyanobacterial blooms
DWR-752	Walsby_et_al-2004-Comparison of the depth where planktothrix rubescens stratifies
DWR-753	Wetzel 2001
DWR-754	Wilson et al. 2006. Intraspecific Variation in growth and morphology of the bloom forming cyanobacterium
DWR-755	World Health Organization 2011
DWR-756	Yuan and Pollard. 2015. Deriving nutrient targets to prevent excessive cyanobacterial densities
DWR-757	Zhang et al. 2015. Effect of Flow rate on environmental variables and phytoplankton dynamics
DWR-758	Dodds et al 1998. Suggested classification of stream trophic state
DWR-759	CVRWQCB 2017 Pesticides TMDL Webpage Accessed 2017-02-08
DWR-760	CITYSAC 2014 2013 CCR
DWR-761	CITYSAC 2015 2014 CCR
DWR-762	CITYSAC 2015 2014 CCR
DWR-800	Central Sac Co GW Mgt Plan 2006

## DWR EXHIBIT LIST SUBMITTED FOR ENTRY INTO EVIDENCE

<b>Exhibit Identification Number</b>	<b>Exhibit Description</b>
DWR-801	Sac Central GW Author Basin Mgt Report 2009-10.
DWR-802	Sac Co General Plan Update FEIR 2010
DWR-803	Sac Co Wtr Ag GW Mgt Plan 2004.
DWR-804	Sac Co Wtr Ag Zone 40 Water Supply Master Plan 2005
DWR-805	SCS Soil Survey Sacramento Co with ref maps
DWR-806	SCS Soil Survey San Joaquin Co with ref maps
DWR-807	SJ Co General Plan, Draft Background Report 2009
DWR-808	Volume 2 - CER-CCO (07-01-2015)
DWR-850	Primary Sources of Water for SWP Exports – Historical Operations
DWR-851	Primary Sources for Lake Oroville Releases – Historical Operations
DWR-852	Historical Unused CVP-SWP Export Capacity – July –Sept
DWR-853	Primary Sources of Water for SWP Exports – DWR Modeling for Petition
DWR-854	Primary Sources of Water for SWP Exports – MBK Modeling
DWR-855	Average Monthly SWP Exports - Pre and Post BiOps
DWR-856	Delta Hydrodynamics
DWR-900 (Part A)	BDCP_2020D09E_2015_Boundary2_Q5_ELT_DSM2_Daily_HORB asNAA
DWR-900 (Part B)	BDCP_2020D09E_2015_H3_Q5_ELT_DSM2_Daily_HORB asNAA
DWR-901	NDWA EC Graphs
DWR-902	SWP WATER OPERATION MONTHLY REPORT FROM FEBUARY 2012
DWR-903	Data for DWR Exhibits 850 and 851, 2011
DWR-904	Data for DWR Exhibits 850 and 851, 2012
DWR-905	Data for DWR Exhibits 850 and 851, 2015
DWR-906	Data for DWR Exhibit 852
DWR-907	CWF_BA_Modeling
DWR-908	4.1.0_CalSim_MBK_Alternative_4A_JPOD_Off_2yr
DWR-909	CalSim_MBK_Alt4a_ELT_noAlloc_noRC
DWR-910	CalSim_MBK_NAA_ELT_noAlloc_noRC
DWR-911	SWP Place of Use Water Right Map

**STATEMENT OF SERVICE**

**CALIFORNIA WATERFIX PETITION HEARING  
Department of Water Resources and U.S. Bureau of Reclamation (Petitioners)**

I hereby certify that I have this day submitted to the State Water Resources Control Board and caused a true and correct copy of the following document(s):

Submission of Exhibit List for Entry of Exhibits into Evidence

to be served **by Electronic Mail** (email) upon the parties listed in Table 1 of the **Current Service List** for the California WaterFix Petition Hearing, dated March 30, 2017, posted by the State Water Resources Control Board at

[http://www.waterboards.ca.gov/waterrights/water\\_issues/programs/bay\\_delta/california\\_waterfix/service\\_list.shtml](http://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/california_waterfix/service_list.shtml):

*Note: In the event that any emails to any parties on the Current Service List are undeliverable, you must attempt to effectuate service using another method of service, if necessary, and submit another statement of service that describes any changes to the date and method of service for those parties.*

**For Petitioners Only:**

	I caused a true and correct <b>hard copy</b> of the document(s) to be served by the following method of service to Suzanne Womack & Sheldon Moore, Clifton Court, L.P., 3619 Land Park Drive, Sacramento, CA 95818:
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	<b>Method of Service:</b> <u>U.S Postal</u>
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I certify that the foregoing is true and correct and that this document was executed on May 15, 2017  
Date

Signature: Bobbie Randhawa

Name: Bobbie Randhawa

Title: Legal Secretary

Party/Affiliation: DWR

Address: 1416 Ninth Street 1104  
Sacramento, CA 95814