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General Manager

February 12, 2018

Ms. Eileen Sobeck, Executive Director
State Water Resources Control Board (SWRCB)
1001 I Street, 24th Floor
Sacramento, CA 95814

Attention: Ms. Mariela Carpio-Obeso
Ms. Katherine Faick

Dear Ms. Sobeck:

Subject: Los Angeles Department of Water and Power
Submittal Monthly and Total Intake Flows and
Actual Annual Impingement Data in Total Pounds
for Harbor, Haynes, and Scattergood Generating Stations

Per your letter dated December 11, 2017, regarding the Once-Through Cooling (OTC) Policy interim mitigation measures, the Los Angeles Department of Water and Power (LADWP) submits the monthly and total intake volume and actual annual impingement data in total pounds for the time frame October 1, 2016 through September 30, 2017 for LADWP's Harbor, Haynes, and Scattergood generating stations (Enclosures 1 and 2).

LADWP understands the data will be used to calculate the OTC mitigation fees for the time frame October 1, 2016 through September 30, 2017.

If you have any questions, feel free to contact Ms. Katherine Rubin, Manager of the Wastewater Quality and Compliance Group at 213-367-0436.

Sincerely,



Mr. Mark J. Sedlacek
Director of Environmental Affairs

KR:dms

Enclosures

c: Ms. Karen Larson, SWRCB
Mr. Phil Crader, SWRCB
Ms. Rebecca Fitzgerald, SWRCB
Ms. Mariela Carpio-Obeso, SWRCB
Ms. Katherine Faick, SWRCB
Ms. Katherine Rubin

Enclosure 1

Monthly and Total Intake Volumes for LADWP Harbor, Haynes, and Scattergood

Haynes Generating Station
Flows for October 2016 - September 2017

Date	October 2016		November 2016		December 2016		January 2017		February 2017		March 2017		April 2017		May 2017		June 2017		July 2017		August 2017		September 2017	
	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)	Waste Flow 001A (MGD)	Waste Flow 001B (MGD)
1	135	135	134	69	135	69	137	136	138	138	138	138	138	138	136	136	136	136	136	136	136	136	137	137
2	138	135	134	69	135	69	138	138	136	135	136	135	69	0	138	136	138	138	138	138	138	138	135	135
3	135	135	134	69	135	69	138	138	138	138	138	138	69	0	136	136	135	135	136	136	135	135	136	136
4	138	135	135	69	135	69	138	138	138	136	135	138	138	138	138	136	138	138	138	138	136	136	135	136
5	137	136	138	69	135	69	137	136	136	136	138	138	69	0	136	136	138	138	136	136	136	136	136	134
6	138	135	135	69	134	69	95	138	138	136	135	135	69	97	138	136	135	135	138	138	137	138	136	135
7	135	135	138	69	138	69	0	137	138	138	135	135	112	136	134	138	138	138	136	136	136	137	136	86
8	138	135	135	69	136	69	0	138	138	136	136	136	136	138	138	136	136	136	136	136	136	138	136	137
9	138	138	138	69	135	75	0	138	136	138	135	135	138	136	138	138	134	138	136	136	135	136	136	138
10	137	137	134	69	135	136	0	136	138	136	137	136	136	138	138	138	138	135	135	110	135	138	138	138
11	138	138	136	69	135	134	0	138	138	138	135	135	138	136	136	136	138	138	138	74	137	137	136	136
12	138	137	137	69	133	133	0	118	135	135	136	136	138	138	138	138	136	136	135	138	135	99	138	138
13	138	64	136	69	134	134	0	52	137	138	135	136	136	136	137	137	136	138	97	135	135	138	138	138
14	138	122	136	69	133	134	0	0	136	136	3	3	138	138	138	138	138	136	105	135	135	138	136	136
15	137	69	136	69	133	138	0	0	138	138	0	0	138	138	136	136	136	138	138	135	135	138	138	138
16	138	69	136	69	136	136	0	0	137	136	0	0	136	136	138	138	138	136	135	135	138	138	138	138
17	138	69	115	69	135	135	0	0	138	138	0	0	138	138	136	136	136	136	135	135	135	35	136	136
18	137	69	84	69	136	135	0	0	137	137	0	0	136	133	136	136	138	138	135	135	136	58	123	123
19	136	69	134	69	135	138	0	0	138	138	0	0	138	138	138	138	136	136	138	138	136	112	136	136
20	135	69	136	69	135	135	0	41	138	138	1	1	137	137	136	136	138	138	136	135	137	138	138	99
21	135	69	137	69	136	137	0	138	136	136	115	114	138	138	136	138	138	138	138	134	128	124	136	113
22	135	69	137	69	135	136	0	137	138	138	136	138	138	138	136	136	136	137	135	135	133	133	137	136
23	135	69	138	69	136	138	0	134	135	137	138	0	136	134	136	138	138	136	138	135	135	100	138	138
24	138	69	137	69	136	137	0	135	138	138	137	0	136	134	138	138	136	138	136	136	138	64	136	137
25	135	69	137	69	136	138	0	135	136	137	138	0	137	136	136	136	138	137	138	135	135	134	138	138
26	138	69	137	69	136	137	46	131	138	138	135	0	137	138	138	138	138	138	136	135	138	138	136	136
27	138	69	137	69	136	138	135	135	136	137	138	0	136	135	138	138	137	137	138	134	135	134	138	138
28	129	69	138	69	137	137	134	135	138	138	136	0	138	135	136	136	138	138	102	135	138	138	136	136
29	138	69	137	69	137	138	134	134			138	0	136	135	138	138	136	136	138	134	135	134	138	138
30	134	69	136	69	138	138	133	133			137	138	138	136	136	136	138	138	138	138	138	138	138	138
31	134	69			137	138	135	135			138	138			138	138			138	138	134	134		
Monthly Total	4231	2990	4012	2070	4198	3627	1500	3204	3841	3838	3259	2303	3817	3648	4247	4245	4109	4110	4132	4124	4206	3870	4089	3978

001A - B Annual Total **87648 MGY**
Oct 1 - Sept 30

Haynes Generating Station
Flows for October 2016 - September 2017

Date	October 2016		November 2016		December 2016		January 2017		February 2017		March 2017		April 2017		May 2017		June 2017		July 2017		August 2017		September 2017	
	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)	Waste Flow 002A (MGD)	Waste Flow 002B (MGD)
1	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
2	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
3	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
4	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
5	115	115	115	115	0	0	115	115	115	115	34	115	115	115	115	115	115	115	115	115	115	115	115	115
6	115	115	115	115	0	0	115	115	115	115	0	115	115	115	115	115	115	115	115	115	115	115	115	115
7	115	115	115	115	0	0	115	115	115	115	20	87	115	115	115	115	115	115	115	115	115	115	115	115
8	115	115	115	115	0	0	115	115	115	115	115	3	115	115	115	115	115	115	115	115	115	115	115	115
9	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
10	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
11	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
12	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
13	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
14	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
15	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
16	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
17	115	115	115	115	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
18	115	115	77	98	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
19	115	115	12	0	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
20	115	115	0	0	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
21	115	115	0	0	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
22	115	115	0	0	64	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
23	115	115	0	0	115	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
24	115	115	0	0	115	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
25	115	115	0	0	115	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
26	115	115	0	0	115	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
27	115	115	0	0	115	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
28	115	115	0	0	115	0	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
29	115	115	0	0	115	0	115	115			115	115	115	115	115	115	115	115	115	115	115	115	115	115
30	115	115	0	0	112	0	115	115			115	115	115	115	115	115	115	115	115	115	115	115	115	115
31	115	115			115	0	115	115			115	115			115	115			115	115	115	115		
Monthly Total	3565	3565	2044	2053	1096	0	3565	3565	3220	3220	3274	3425	3450	3450	3565	3565	3450	3450	3565	3565	3518	3565	3450	3450

002A-B Annual Total **74635 MGY**
Oct 1 - Sept 30

Grand Total - 001 and 002 **162283 MGY**
Oct 1 - Sept 30

Scattergood Generating Station - Daily, Monthly and Total Intake flow

Day	2016 Daily Flow (mgd)			2017 Daily Flow (mgd)								
	October	November	December	January	February	March	April	May	June	July	August	September
	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2	Unit 1&2
1	168	168	168	168	0	112	168	112	111	112	124	225
2	168	168	168	142	18	112	168	112	112	112	225	225
3	168	168	168	112	0	112	168	146	112	112	169	225
4	168	168	168	112	0	112	168	168	112	112	168	225
5	168	168	168	112	0	112	168	168	112	73	145	181
6	168	168	168	112	0	112	168	168	112	56	112	168
7	168	168	168	112	0	112	168	168	112	56	112	168
8	168	168	168	112	0	112	168	168	112	56	112	168
9	168	168	168	112	0	112	168	168	112	56	112	168
10	168	168	168	112	0	112	168	168	112	56	112	190
11	168	168	168	112	0	112	168	168	112	85	112	225
12	168	168	168	112	0	112	168	168	112	112	112	225
13	168	168	168	71	0	112	112	168	112	112	112	225
14	168	156	168	56	56	112	112	168	112	112	112	217
15	168	136	168	56	56	112	112	168	112	56	112	168
16	168	168	168	56	56	112	112	168	112	57	112	153
17	168	168	168	56	56	112	112	168	112	56	112	112
18	168	168	168	19	56	112	112	168	112	56	112	112
19	168	168	168	0	56	112	112	168	168	56	112	112
20	168	168	168	0	56	75	112	168	168	56	112	112
21	168	168	168	17	56	112	112	168	168	50	112	112
22	168	168	168	56	56	112	112	168	168	112	112	112
23	168	168	168	56	56	112	112	168	157	112	112	112
24	168	168	168	56	56	112	112	168	112	112	112	112
25	168	168	168	56	56	129	112	168	112	112	112	112
26	168	168	168	40	56	168	80	168	112	112	112	112
27	168	168	168	0	61	168	112	168	112	112	157	112
28	168	168	168	0	112	190	112	168	112	112	225	112
29	168	168	191	0		225	112	168	112	112	225	112
30	168	168	194	0		222	112	112	112	112	225	112
31	168		168	0		168		112		112	225	
Average	168	167	170	65	33	127	134	161	121	88	137	158

Total Monthly Flow (million gallons/month)	5,223	5,009	5,271	2,030	921	3,929	4,011	4,976	3,638	2,737	4,246	4,729
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Total Flow Oct 1 2016 - Sept 30 2017 (million gallons/year)	46719
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Enclosure 2

Actual Annual Impingement Data

For LADWP Harbor, Haynes, and Scattergood Generating Stations

LADWP Actual Impingement Data for Harbor, Haynes, and Scattergood

Impingement Biomass (lbs.)

Actual Impingement during Surveys

Month	HGS	SGS		HnGS			
		Impingement	Heat Treatment	Unit 1	Unit 2	Unit 3	Unit 4
Oct 16	0.000	0.035	2.946	0.273	0.007	0.000	0.000
Nov 16	0.000	0.406	2.448	0.000	0.000	0.000	0.000
Dec 16	0.000	0.165	0.000	0.088	0.216	NS	NS
Jan 17	6.057	0.203	0.000	0.000	0.022	0.000	0.000
Feb 17	0.097	0.000	0.000	0.002	0.249	0.000	0.000
Mar 17	0.000	0.000	0.015	0.000	0.071	0.000	0.000
Apr 17	0.022	0.000	0.000	0.000	0.004	0.000	0.000
May 17	0.176	0.000	1.971	0.829	0.000	1.107	0.000
Jun 17	0.000	0.000	0.512	0.578	0.007	0.000	0.011
Jul 17	0.000	0.000	0.000	0.004	0.000	0.000	0.000
Aug 17	0.000	0.000	0.000	0.002	0.150	0.000	0.000
Sep 17	8.220	0.000	2.412	0.000	0.000	0.000	0.004
Yearly Total	14.573	0.809	10.304	1.777	0.725	1.107	0.015

NS=No Survey