



**BRACEWELL ENGINEERING, INC.**

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September 8, 2023

District Engineer  
State Water Resources Control Board-Division of Drinking Water  
850 Marina Bay Parkway, Building P, 2nd Floor  
Richmond, CA 94804

Re: August 2023 Monthly Report to the Office of Drinking Water  
La Honda Water System (County Service Area No. 7), No. CA4100509

Dear District Engineer:

Attached are the Monthly Summary of Distribution System Coliform Monitoring and the Monthly Summary of Monitoring for Surface Water Treatment Regulations for the La Honda Water System.

- The monthly distribution system treated water bacteriological sample showed an absence of total coliforms and E. coli.
- Chlorine residuals were maintained as required.
- The minimum Disinfection CT ratio was 3.3 for a DDW required 1- log removal for Giardia.

Please do not hesitate to contact me if you have any questions.

Respectfully submitted,  
BRACEWELL ENGINEERING, INC.

Lloyd W. Bracewell, PhD., RCE  
Water System Engineer

cc: San Mateo County, CSA #7  
BEI Office

La Honda Water System (CSA No. 7)  
 555 County Center, 5th Floor  
 Redwood City, CA 94063  
 System No. CA4100509

WATER SYSTEM MONITORING REPORT

Water Resources Control Board  
 Division of Drinking Water  
 850 Marina Bay Parkway, Bldg P  
 Richmond, CA 98804

Location			Plant On	Raw Water	Raw Water	Treated Water	Backwash
Parameter			SW Plant	Tank	Flow	Average Flow	Flow
frequency			daily	daily	calculation	calculation	calculation
Units			Y/N	ft	gal/d	gal/d	gal/d
Type				level	flow		flow
High Limit							
Low Limit							
Date	Initials	Time					
8/1/2023			N		3,885	-	329
8/2/2023			N		3,885	-	329
8/3/2023	KB	1400	Y	10.60	3,885	27,250	329
8/4/2023			Y		60,809	50,900	4,750
8/5/2023			Y		60,809	50,900	4,750
8/6/2023			Y		60,809	50,900	4,750
8/7/2023	KB	1130	Y	13.08	60,809	50,900	4,750
8/8/2023			Y		10,907	25,575	900
8/9/2023			Y		10,907	25,575	900
8/10/2023			N		10,907	-	900
8/11/2023			N		10,907	-	900
8/12/2023			N		10,907	-	900
8/13/2023			N		10,907	-	900
8/14/2023			N		10,907	-	900
8/15/2023			N		10,907	-	900
8/16/2023			N		10,907	-	900
8/17/2023			Y		10,907	25,575	900
8/18/2023	KB	1130	Y	14.02	10,907	25,575	900
8/19/2023			N		28,602	-	1,267
8/20/2023			N		28,602	-	1,267
8/21/2023	KB	1230	Y	14.07	28,602	35,080	1,267
8/22/2023			Y		28,602	35,080	4,150
8/23/2023			Y		28,602	35,080	4,150
8/24/2023			Y		28,602	35,080	4,150
8/25/2023	KB	1145	Y	13.04	28,602	35,080	4,150
8/26/2023			N		10,613	-	933
8/27/2023			N		10,613	-	933
8/28/2023	KB	1430	Y	13.82	10,613	28,100	933
8/29/2023			Y		50,240	43,867	4,600
8/30/2023			Y		50,240	43,867	4,600
8/31/2023	KB	1015	Y	13.26	50,240	43,867	4,600

Min	-	1015	-	10.60	3,885	-	329
Max	-	1430	-	14.07	60,809	50,900	4,750
Average				13.13	24,440	21,556	2,158
Total					757,643	668,250	66,888



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WATER SYSTEM MONITORING REPORT

Water Resources Control Board  
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 Richmond, CA 98804

Location	Contact Pipe	Contact Pipe	Contact Pipe	Contact Pipe	Contact Pipe
Parameter	CL2 Residual	pH	Turbidity	Temp	CL2
frequency	daily	weekly	weekly	weekly	weekly
Units	mg/L	units	ntu	C	mg/L
Type	Analyzer	Grab	Grab	Grab	Grab
High Limit					
Low Limit					
Date					
8/1/2023					
8/2/2023					
8/3/2023	2.62	8.07	0.26	17.8	2.39
8/4/2023					
8/5/2023					
8/6/2023					
8/7/2023	2.65	7.66	0.1	18.6	2.75
8/8/2023					
8/9/2023					
8/10/2023					
8/11/2023					
8/12/2023					
8/13/2023					
8/14/2023					
8/15/2023					
8/16/2023					
8/17/2023					
8/18/2023	2.03	7.57	0.11	18.9	2.16
8/19/2023					
8/20/2023					
8/21/2023	1.94				
8/22/2023					
8/23/2023					
8/24/2023					
8/25/2023	3.01	7.81	0.12	18.8	3.25
8/26/2023					
8/27/2023					
8/28/2023	2.5	7.8	0.18	19.3	2.54
8/29/2023					
8/30/2023					
8/31/2023	2.64				

Min	1.94	7.57	0.10	17.80	2.16
Max	3.01	8.07	0.26	19.30	3.25
Average	2.48	7.78	0.15	18.68	2.62
Total					

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WATER SYSTEM MONITORING REPORT

Water Resources Control Board  
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 Richmond, CA 98804

Location		TW Storage Tank	TW Storage Tank	TW Storage Tank	TW Storage Tank
Parameter		Level	Temp	pH	cl2 residual
frequency		weekly	weekly	weekly	weekly
units		ft	C	Units	ppm
Type		Visual			
High Limit			17.0	8.50	2.00
Low Limit			6.5	7.50	0.30
Date	Oper. Initials				
8/1/2023					
8/2/2023					
8/3/2023					
8/4/2023	KB	18	17.6	7.96	0.84
8/5/2023					
8/6/2023					
8/7/2023					
8/8/2023					
8/9/2023	KB	26.4	17.7	8.3	0.31
8/10/2023					
8/11/2023					
8/12/2023					
8/13/2023					
8/14/2023					
8/15/2023					
8/16/2023					
8/17/2023					
8/18/2023	KB	19.1	20.1	8.27	0.84
8/19/2023					
8/20/2023					
8/21/2023					
8/22/2023					
8/23/2023					
8/24/2023					
8/25/2023	KB	21.9	18.6	7.99	1.32
8/26/2023					
8/27/2023					
8/28/2023					
8/29/2023					
8/30/2023					
8/31/2023	KB	24.6	18.8	8.32	1.36

Min	-	18.0	17.6	7.96	0.31
Max	-	26.4	20.1	8.32	1.36
Average		22.0	18.6	8.17	0.93
Total					

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WATER SYSTEM MONITORING REPORT

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Location		Routine Sample Site
Parameter		Cl2 Residual
frequency		as needed
units		mg/L
Type		grab
High Limit		
Low Limit		
Date	Oper. Initials	
8/1/2023		
8/2/2023		
8/3/2023		
8/4/2023	KB	1.22
8/5/2023		
8/6/2023		
8/7/2023		
8/8/2023		
8/9/2023	KB	0.24
8/10/2023		
8/11/2023		
8/12/2023		
8/13/2023		
8/14/2023		
8/15/2023		
8/16/2023		
8/17/2023		
8/18/2023	KB	1.09
8/19/2023		
8/20/2023		
8/21/2023		
8/22/2023		
8/23/2023		
8/24/2023		
8/25/2023	KB	1.78
8/26/2023		
8/27/2023		
8/28/2023		
8/29/2023		
8/30/2023		
8/31/2023	KB	1.14

Min	-	0.24
Max	-	1.78
Average		1.09
Total		

LHW

August

La Honda Water System (W4100509)

CHLORINE RESIDUAL	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	13460 Pescadero Creek	AA05164	8/23/23	1.2	mg/L		SM 4500-CI G		0.02	Routine	LHW_BAC
COLIFORM MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	ALPINE CREEK - RAW	AA05163	8/23/23	137.4	MPN/100mL		SM9223B-18		1.0	Other	LHW_BAC
COLIFORM PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	13460 Pescadero Creek	AA05164	8/23/23	A	P/A		SM9223B-18			Routine	LHW_BAC
E COLI MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	ALPINE CREEK - RAW	AA05163	8/23/23	8.5	MPN/100mL		SM9223B-18		1.0	Other	LHW_BAC
E COLI PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	13460 Pescadero Creek	AA05164	8/23/23	A	P/A		SM9223B-18			Routine	LHW_BAC
UV254	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	ALPINE CREEK - RAW	AA05090	8/2/23	0.122	Abs/Tran		SM 5910B			Grab	LHW_MISC
	ALPINE CREEK - RAW	AA05270	8/9/23	0.088	Abs/Tran		SM 5910B				LHW_MISC
	ALPINE CREEK - RAW	AA05303	8/18/23	0.080	Abs/Tran		SM 5910B				LHW_MISC
	ALPINE CREEK - RAW	AA05369	8/23/23	0.089	Abs/Tran		SM 5910B				LHW_MISC
			HIGH 0.12	AVG 0.09	LOW 0.08						
	TREATMENT PLANT - TREATED	AA05091	8/2/23	0.042	Abs/Tran		SM 5910B			Grab	LHW_MISC
	TREATMENT PLANT - TREATED	AA05271	8/9/23	0.053	Abs/Tran		SM 5910B				LHW_MISC
	TREATMENT PLANT - TREATED	AA05304	8/18/23	0.049	Abs/Tran		SM 5910B				LHW_MISC
	TREATMENT PLANT - TREATED	AA05370	8/23/23	0.052	Abs/Tran		SM 5910B				LHW_MISC
			HIGH 0.05	AVG 0.05	LOW 0.04						





Monthly Summary of Monitoring  
For Surface Water Treatment Regulations

System Name: La Honda Water System (CSA #7)

System Number: 4100509

Treatment Plant Name: La Honda Water System (CSA #7)

Month: August Year: 2023

Treated Water Turbidities Every Four Hours (NTU)\*

Date	Peak Raw Water Turbidity	Peak Settled Water Turbidity	Midnight to 0400	0400 to 0800	0800 to Noon	Noon to 1600	1600 to 2000	2000 to Midnight	Average Treated Water	Minimum Ct. Ratio
1										
2										
3	0.96					0.06	0.06	0.04	0.05	3.3
4	0.81		0.04	0.04	0.04	0.04	0.05	0.04	0.04	5.3
5	0.82		0.04	0.05	0.04	0.04	0.05	0.03	0.04	4.9
6	0.78		0.04	0.07	0.04	0.04	0.12	0.04	0.06	4.8
7	0.79		0.04	0.09	0.04	0.04	0.04	0.04	0.05	5.6
8	0.74		0.04	0.04	0.04	0.04	0.04	0.04	0.04	5.6
9	0.71		0.04	0.04	0.04				0.04	3.9
10										
11										
12										
13										
14										
15										
16										
17										
18	0.68					0.05	0.05		0.05	4.1
19										
20										
21	0.62					0.09	0.05		0.07	3.4
22	0.53					0.04	0.05	0.05	0.05	5.6
23	0.46		0.05			0.06	0.05	0.04	0.05	5.4
24	0.50		0.05	0.04	0.04	0.05	0.05	0.05	0.05	5.9
25	0.34		0.05	0.05	0.05	0.06	0.06	0.05	0.05	6.2
26										
27										
28	0.52					0.05	0.06	0.05	0.05	4.8
29	0.63		0.05	0.06	0.05	0.09	0.05	0.05	0.06	4.6
30	0.57		0.15	0.05		0.05	0.05	0.07	0.07	5.3
31	0.62		0.06	0.05	0.09	0.05	0.05	0.14	0.07	4.8
Ave.	0.65								0.05	3.3

\*If a continuous monitoring turbidimeter is used, determine discrete turbidity value for the same times during each 24-hour period

Total No. of Samples: 79 No. of Readings ≤ 0.3 NTU: 79

% Readings ≤ 0.3 NTU = [(No. Readings ≤ 0.3 NTU) / (Total No. Samples)] x 100 = 100%

Meets Standard (i.e. more than 95% of readings are ≤ 0.3 NTU) (Y/N)? Y

Percent reduction during the month = [(Average Raw NTU - Average Effluent NTU) / (Average Raw NTU)] x 100 = 92%

Meets Standard (i.e. reduction is greater than 80%) (Y/N)? Y

95th Percentile Value of all turbidity readings (95% of all turbidity readings are less than this value) 0.091

Incidents of turbidity greater than 1.0 NTU

Date of Incident				
Value				
Duration				

Total Number of incidents where turbidity is > 1.0 NTU: 0  
 Total Number of incidents where turbidity is > 5.0 NTU: 0  
 Meets Standards (i.e. NTU is not > 1.0 for more than eight consecutive hours) (Y/N)? Y

After placing a filter back into service after any interruption (e.g. backwashing), did the filter effluent comply with the following criteria:

a. < 2.0 NTU after all events (Y/N)? Y  
 b. < 1.0 NTU after 90% of events (Y/N)? Y  
 c. < 0.5 NTU after 4 hours (Y/N)? Y

Indicate the date that the turbidimeters that are used for regulatory monitoring purposes were calibrated

Date	Which Turbidimeter	Standard used (primary/secondary)	Date	Which Turbidimeter	Standard Used (primary/secondary)
1/28/2022	Hach, raw wtr	0/20 Formazin	1/28/2022	Hach, treated	0/20 Formazin
4/28/2022	Hach, raw wtr	0/20 Formazin	4/28/2022	Hach, treated	0/20 Formazin
7/22/2022	Hach, raw wtr	0/20 Formazin	7/22/2022	Hach, treated	0/20 Formazin
10/26/2022	Hach, raw wtr	0/20 Formazin	10/26/2022	Hach, treated	0/20 Formazin
1/27/2023	Hach, raw wtr	0/20 Formazin	1/27/2023	Hach, treated	0/20 Formazin
6/2/2023	Hach, raw wtr	0/20 Formazin	6/2/2023	Hach, treated	0/20 Formazin

Disinfection Process Data

Disinfectant residual type: free chlorine: X combined chlorine: \_\_\_\_\_ other (specify) \_\_\_\_\_

Incidents of chlorine residuals less than 0.2 ppm at the plant effluent:

Date of Incident			
Duration			
Date Dept. Notified			

Total number of incidents where residual is < 0.2 ppm: 0  
 Meets standard (i.e. not less than 0.2 ppm for more than four hours) (Y/N)? Y

No. of distribution system residual samples collected:	1
No of distribution system samples for HPC only:	
Total No. residual and/or HPC samples collected:	1
No. of samples with no detectable residual and HPC is not measured:	0
No. of samples with no residual and HPC > 500 CFU/ml:	
No. of samples for HPC only and HPC > 500 CFU/ml:	
Total No. Samples with no residual and/or HPC > 500 CFU/ml:	0

Compute V where  $V = [ 1 - ( \text{Total number of samples with no residual and/or HPC} > 500 ) / ( \text{Total number of residual and/or HPC samples collected} ) ] \times 100 =$  100%

Meets Standard (i.e V > 95%) (Y/N) Y

## Summary of Water Quality Complaints

### General Complaints

Type of Complaint	Number	Corrective Actions Taken
Taste/Odor	0	
Color	0	
Turbidity	0	
Suspended Solids	0	
Other (describe)	0	

### Reports of Gastrointestinal Illness (Attach additional sheets if necessary):

Person Reporting	Date	Corrective Actions Taken

Attach explanation of any failure of the performance standards or operating criteria and corrective action taken or planned

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Signature:

*Greg W. Baccell*

Date:

9/8/2023

