



BRACEWELL ENGINEERING, INC.

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March 10, 2023

Mr. Eric Lacy
State Water Resources Control Board-Division of Drinking Water
850 Marina Bay Parkway, Building P, 2nd Floor
Richmond, CA 94804

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

Dear Mr. Lacy:

Attached are the Monthly Summary of Distribution System Coliform Monitoring and the Monthly Summary of Monitoring for Surface Water Treatment Regulations, and the Coliform Reporting Form 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 and turbidity levels did not exceed 0.3 NTU when treating water for domestic use. The minimum disinfection CT ratio was 1.8 for a DDW required 1-log removal for Giardia. The treated water was monitored for aluminum and iron and the results were below their respective MCLs.

The Surface Water Treatment System refurbishment project was started early in the month and it we anticipate that the treatment system will be up and running by the end of March at the latest.

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

Respectfully submitted,
BRACEWELL ENGINEERING, INC.

Alan Bracewell
Staff Engineer

cc: 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			Raw Water	Raw Water	Raw Water	Treated Water	Backwash
Parameter			Tank	Tank	Flow	Flow	Flow
frequency			daily	daily	calculation	calculation	calculation
Units			ft	ft	gal/d	gal/d	gal/d
Type			level	level	flow	flow	flow
High Limit							
Low Limit							
Date	Initials	Time					
2/1/2023					45,000	32,150	6,383
2/2/2023	KB	1400	13.17	21.14	10,495	32,150	6,383
2/3/2023					10,495	8,720	1,620
2/4/2023					10,495	8,720	1,620
2/5/2023					10,495	8,720	1,620
2/6/2023					10,495	8,720	1,620
2/7/2023	KB	1030	13.76	24.68	10,495	8,720	1,620
2/8/2023							
2/9/2023							
2/10/2023							
2/11/2023							
2/12/2023							
2/13/2023							
2/14/2023							
2/15/2023							
2/16/2023							
2/17/2023							
2/18/2023							
2/19/2023							
2/20/2023							
2/21/2023							
2/22/2023							
2/23/2023							
2/24/2023							
2/25/2023							
2/26/2023							
2/27/2023							
2/28/2023							

Min	-	1030	13.17	21.14	10,495	8,720	1,620
Max	-	1400	13.76	24.68	45,000	32,150	6,383
Average		1215	13.47	22.91	15,425	15,414	2,981
Total					107,972	107,900	20,867

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WATER SYSTEM MONITORING REPORT

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

Location	Contact Pipe	Contact Pipe	Contact Pipe	Contact Pipe
Parameter	pH	Turbidity	Temp	CL2
frequency	weekly	weekly	weekly	weekly
Units	units	ntu	C	mg/L
Type	Grab	Grab	Grab	Grab
High Limit				
Low Limit				
Date				
2/1/2023				
2/2/2023	7.69	0.2	12.4	1.33
2/3/2023				
2/4/2023				
2/5/2023				
2/6/2023				
2/7/2023	8.03	0.54	11.6	2.19
2/8/2023				
2/9/2023				
2/10/2023				
2/11/2023				
2/12/2023				
2/13/2023				
2/14/2023				
2/15/2023				
2/16/2023				
2/17/2023				
2/18/2023				
2/19/2023				
2/20/2023				
2/21/2023				
2/22/2023				
2/23/2023				
2/24/2023				
2/25/2023				
2/26/2023				
2/27/2023				
2/28/2023				

Min	7.69	0.20	11.60	1.33
Max	8.03	0.54	12.40	2.19
Average	7.86	0.37	12.00	1.76
Total				

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WATER SYSTEM MONITORING REPORT

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

Location	Old Chlorination Station
Parameter	Cl2 Residual
frequency	weekly
units	ppm
Type	
High Limit	2
Low Limit	0.3
Date	
2/1/2023	
2/2/2023	
2/3/2023	
2/4/2023	
2/5/2023	
2/6/2023	
2/7/2023	
2/8/2023	
2/9/2023	
2/10/2023	
2/11/2023	
2/12/2023	
2/13/2023	
2/14/2023	
2/15/2023	
2/16/2023	
2/17/2023	
2/18/2023	
2/19/2023	
2/20/2023	
2/21/2023	
2/22/2023	
2/23/2023	
2/24/2023	
2/25/2023	
2/26/2023	
2/27/2023	
2/28/2023	

Min	-
Max	-
Average	
Total	

La Honda Water System (CSA No. 7)
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WATER SYSTEM MONITORING REPORT

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

Location			Routine Sample Site	Water Tank (Weekly)
Parameter			Cl2 Residual	Cl2 Residual
frequency			as needed	weekly
units			mg/L	mg/L
Type			grab	grab
High Limit				
Low Limit				
Date	Oper. Initials	Timer		
2/1/2023				
2/2/2023	KB	1400	1.07	
2/3/2023				
2/4/2023				
2/5/2023				
2/6/2023				
2/7/2023	KB	1045	0.89	
2/8/2023				
2/9/2023				
2/10/2023				
2/11/2023				
2/12/2023				
2/13/2023				
2/14/2023				
2/15/2023				
2/16/2023	KB	900	0.32	
2/17/2023				
2/18/2023				
2/19/2023				
2/20/2023				
2/21/2023				
2/22/2023				
2/23/2023				
2/24/2023	KB	1000	0.24	
2/25/2023				
2/26/2023				
2/27/2023				
2/28/2023				

Min	-	900	0.24	-
Max	-	1400	1.07	-
Average		1086.25	0.63	
Total				

LHW

February

La Honda Water System (W4100509)

ALUMINUM	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	TREATMENT PLANT - TREATED	AA02827	2/8/23	ND	ug/L		EPA 200.8	5	15		
CL2 RES FD	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	400 Ranch	AA02814	2/8/23	0.30	mg/L		SM4500-CI G	0.02	0.02		
COLIFORM MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	ALPINE CREEK - RAW	AA02825	2/8/23	167	MPN/100mL		SM9223B-18	1.0	1.0		
COLIFORM PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	400 Ranch	AA02814	2/8/23	A	P/A		SM9223B-18				
COPPER	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	110001 Alpine	AA02811	2/23/23	369	µg/L		EPA 200.8	1	2		
	11031 Alpine	AA02812	2/23/23	112	µg/L		EPA 200.8	1	2		
	84 Memory	AA02815	2/23/23	274	µg/L		EPA 200.8	1	2		
	86 Memory	AA02816	2/23/23	63.1	µg/L		EPA 200.8	1	2		
	Station 06	AA02817	2/23/23	168	µg/L		EPA 200.8	1	2		
	Station 07	AA02818	2/23/23	9.3	µg/L		EPA 200.8	1	2		
	Station 08	AA02819	2/23/23	298	µg/L		EPA 200.8	1	2		
	Station 09	AA02820	2/23/23	114	µg/L		EPA 200.8	1	2		
	Station 10	AA02821	2/23/23	66.0	µg/L		EPA 200.8	1	2		
	Station 11	AA02822	2/23/23	130	µg/L		EPA 200.8	1	2		
	Station 12	AA02823	2/23/23	5.2	µg/L		EPA 200.8	1	2		
E COLI MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	ALPINE CREEK - RAW	AA02825	2/8/23	38.9	MPN/100mL		SM9223B-18	1.0	1.0		
E COLI PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	400 Ranch	AA02814	2/8/23	A	P/A		SM9223B-18				
IRON	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	ALPINE CREEK - RAW	AA02826	2/8/23	696	µg/L		EPA 200.7	10	30		
	TREATMENT PLANT - TREATED	AA02827	2/8/23	ND	µg/L		EPA 200.7	10	30		
LEAD	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	110001 Alpine	AA02811	2/23/23	2.4	µg/L	15MAX	EPA 200.8	0.1	1		
	11031 Alpine	AA02812	2/23/23	2.6	µg/L	15MAX	EPA 200.8	0.1	1		
	84 Memory	AA02815	2/23/23	2.1	µg/L	15MAX	EPA 200.8	0.1	1		
	86 Memory	AA02816	2/23/23	1.3	µg/L	15MAX	EPA 200.8	0.1	1		
	Station 06	AA02817	2/23/23	ND	µg/L	15MAX	EPA 200.8	0.1	1		
	Station 07	AA02818	2/23/23	ND	µg/L	15MAX	EPA 200.8	0.1	1		

February

La Honda Water System (W4100509)

	Station 08	AA02819	2/23/23	ND	µg/L	15MAX	EPA 200.8	0.1	1		
	Station 09	AA02820	2/23/23	ND	µg/L	15MAX	EPA 200.8	0.1	1		
	Station 10	AA02821	2/23/23	ND	µg/L	15MAX	EPA 200.8	0.1	1		
	Station 11	AA02822	2/23/23	ND	µg/L	15MAX	EPA 200.8	0.1	1		
	Station 12	AA02823	2/23/23	ND	µg/L	15MAX	EPA 200.8	0.1	1		
TURBIDITY	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	110001 Alpine	AA02811	2/23/23	0.15	NTU		EPA 180.1	0.05	0.1		
	11031 Alpine	AA02812	2/23/23	ND	NTU		EPA 180.1	0.05	0.1		
	84 Memory	AA02815	2/23/23	ND	NTU		EPA 180.1	0.05	0.1		
	86 Memory	AA02816	2/23/23	0.20	NTU		EPA 180.1	0.05	0.1		
	Station 06	AA02817	2/23/23	ND	NTU		EPA 180.1	0.05	0.1		
	Station 07	AA02818	2/23/23	ND	NTU		EPA 180.1	0.05	0.1		
	Station 08	AA02819	2/23/23	ND	NTU		EPA 180.1	0.05	0.1		
	Station 09	AA02820	2/23/23	ND	NTU		EPA 180.1	0.05	0.1		
	Station 10	AA02821	2/23/23	ND	NTU		EPA 180.1	0.05	0.1		
	Station 11	AA02822	2/23/23	ND	NTU		EPA 180.1	0.05	0.1		
	Station 12	AA02823	2/23/23	ND	NTU		EPA 180.1	0.05	0.1		
UV254	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE	FREQUENCY
	ALPINE CREEK - RAW	AA02996	2/7/23	0.231	Abs/Tran		SM 5910B				
	TREATMENT PLANT - TREATED	AA02997	2/7/23	0.049	Abs/Tran		SM 5910B				

State of California
 Water Resources Control Board
 Division of Drinking Water
 Coliform Reporting Form

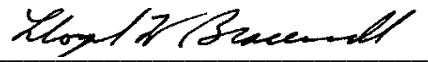
Date of Report: 3/10/2023

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

System Number: CA4100509

Laboratory: BEI Analytical Laboratory

Elap No: 3019

Signature of Lab Director: 

Report Period from: 2/1/2023 to 2/28/2023

Sampler: Keefe Brennan

Employed by: Bracewell Engineering, Inc.

Collection Date	Laboratory Number	Bottle Number	Site Name or Street Address	Sample Type	Total Coliform	E. Coli	Remarks
2/8/2023			400 Ranch	1	A	A	SM 9223B-18
2/8/2023			Raw Water	4	167	38.9	SM 9223 B-18 (MPN)

- 1 = Routine
- 2 = Repeat
- 3 = Replacement
- 4 = Other
- P = Present
- A = Absent

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: February 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	6.36		0.03	0.03		0.03	0.04	0.03	0.03	2.8
2	4.64					0.04	0.03	0.04	0.04	2.2
3	7.93		0.03	0.04	0.03				0.03	2.4
4										
5										
6										
7	10.91					0.04	0.04	0.04	0.04	2.6
8	10.33			0.04	0.12	0.04	0.03	0.04	0.05	2.9
9	8.49		0.04		0.05	0.04	0.03	0.04	0.04	1.8
10	7.94		0.03	0.11	0.04	0.04	0.04	0.03	0.05	2.0
11	7.48		0.04	0.03	0.03	0.03	0.04	0.03	0.03	2.4
12	4.70		0.04						0.04	2.5
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Ave.									0.04	

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

Total No. of Samples: 37 No. of Readings ≤ 0.3 NTU: 37

% 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 = #DIV/0!

Meets Standard (i.e. reduction is greater than 80%) (Y/N)? #DIV/0!

95th Percentile Value of all turbidity readings (95% of all turbidity readings are less than this value): 0.063

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

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

Signature:

Gregory W. Baccanell

Date:

3/10/2023

