



**BRACEWELL ENGINEERING, INC.**

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August 10, 2021

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

Re: July 2021 Monthly Report to the Office of Drinking Water  
La Honda Water System (County Service Area No. 7), No. W4100509

Dear Mr. Lacy:

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 and turbidity levels did not exceed 0.3 NTU when treating water for domestic use. The minimum disinfection CT ratio was 2.3 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

WATER SYSTEM MONITORING REPORT

La Honda Water System (CSA No. 7)  
 555 County Center, 5th Floor  
 Redwood City, CA 94063  
 System No. 4100509

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

Station: Test: Units: Type: Frequency: Date	Finish Wtr FLOW gal/day calculated daily	Finish Wtr TEMP deg C grab weekly	Finish Wtr PH std units grab weekly	Finish Wtr CL2 RESID mg/L continuous daily	ContctPipe CT VALUE min-mg/L calculated daily	Finish Wtr CT REQUIRD min-mg/L calculated daily	ContctPipe CT RATIO ratio calculated daily	Finish Wtr TURBIDITY NTU continuous daily	Raw Water TURBIDITY NTU continuous daily	Finish Wtr TRB/PH/CL2 initials calib check weekly
07/01/21	0									
07/02/21	0									
07/03/21	0									
07/04/21	0									
07/05/21	0									
07/06/21	50700	17.7	7.96	1.99	56.05	17.2	3.3	0.05	3.71	KB
07/07/21	47650	17.7	7.65	2.03	57.18	15.5	3.7	0.05	0.87	
07/08/21	47650	17.7	7.47	2.00	56.33	14.5	3.9	0.05	0.58	
07/09/21	0									
07/10/21	0									
07/11/21	0									
07/12/21	16900	17.0	8.08	1.59	44.78	18.2	2.5	0.05	0.97	
07/13/21	16550	17.0	7.84	1.33	37.46	16.3	2.3	0.05	0.94	
07/14/21	16550	17.5	7.59	1.40	39.43	14.6	2.7	0.05	1.10	
07/15/21	0									
07/16/21	0									
07/17/21	0									
07/18/21	0									
07/19/21	25825	17.5	7.26	1.96	55.21	13.6	4.1	0.05	3.55	
07/20/21	25825	17.5	7.45	1.56	43.94	14.1	3.1	0.04	0.99	
07/21/21	25825	17.5	7.44	1.84	51.83	14.4	3.6	0.04	0.94	
07/22/21	25825	14.1	7.50	1.64	46.19	18.3	2.5	0.05	1.14	
07/23/21	8300	14.1	7.72	1.79	50.42	20.0	2.5	0.05	1.10	KB
07/24/21	0									
07/25/21	0									
07/26/21	26900	16.1	7.95	1.69	47.60	18.7	2.5	0.05	0.75	KB
07/27/21	26900	16.1	7.74	1.70	47.88	17.4	2.8	0.05	0.63	
07/28/21	0									
07/29/21	0									
07/30/21	0									
07/31/21	11050	16.1	7.73	2.64	74.36	18.6	4.0	0.02	1.22	
Average:	12015	16.7	7.67	1.80	50.62	16.5	3.1	0.05	1.32	
High:	50700	17.7	8.08	2.64	74.36	20.0	4.1	0.05	3.71	
Low:	0	14.1	7.26	1.33	37.46	13.6	2.3	0.02	0.58	
Total:	372450									
Method:		SM2550B	SM4500-H+ B	SM4500-C1 G				SM2130B	SM2130B	
Limit1:				mn d >= 0.20			mn d >= 1.0	mx d <= 0.3		
Over/Total:				0/14			0/14	0/14		

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

Station:	Raw Water	Raw Water	Raw Water	APN 240070	APN 240070	APN 240070	APN 240070	01dC12Sta	01dC12Sta	01dC12Sta	01dC12Sta
Test:	SAMPL TYPE	COLIFORM	E. COLI	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID
Units:	TYPE	MPN/100mL	MPN/100mL	TYPE	pres./abs.	pres./abs.	mg/L	TYPE	pres./abs.	pres./abs.	mg/L
Type:	observation	grab	grab	observation	grab	grab	grab	observation	grab	grab	grab
Frequency:	as needed	monthly	monthly	Mar/May/Oct	Mar/May/Oct	Mar/May/Oct	Mar/May/Oct	Apr/Jun/Nov	Apr/Jun/Nov	Apr/Jun/Nov	Apr/Jun/Nov
Date											
07/01/21				due 10/21	due 10/21	due 10/21	due 10/21	due 11/21	due 11/21	due 11/21	due 11/21
07/02/21											
07/03/21											
07/04/21											
07/05/21											
07/06/21											
07/07/21											
07/08/21											
07/09/21											
07/10/21											
07/11/21											
07/12/21											
07/13/21	Other	67.6	13.2								
07/14/21											
07/15/21											
07/16/21											
07/17/21											
07/18/21											
07/19/21											
07/20/21											
07/21/21											
07/22/21											
07/23/21											
07/24/21											
07/25/21											
07/26/21											
07/27/21											
07/28/21											
07/29/21											
07/30/21											
07/31/21											
Average:		67.6	13.2								
High:		67.6	13.2								
Low:		67.6	13.2								
DL/RL:		1.0/1.0	1.0/1.0								
Method:		SM9223 B-18	SM9223 B-18		SM9223B-18	SM9223B-18	SM4500-C1 G		SM9223B-18	SM9223B-18	SM4500-C1 G
Limit1:					mx d < 1	mx d < 1	mn d >= 0.05		mx d < 1	mx d < 1	mn d >= 0.05
Over/Total:					0/0	0/0	0/0		0/0	0/0	0/0

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Station:	251 PescCr	251 PescCr	251 PescCr	251 PescCr	460 Pescdr	460 Pescdr	460 Pescdr	460 Pescdr	Raw Water	TreatedWtr
Test:	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID	ALUMINUM	ALUMINUM
Units:	TYPE	pres./abs.	pres./abs.	mg/L	TYPE	pres./abs.	pres./abs.	mg/L	ug/L	ug/L
Type:	observation	grab	grab	grab	observation	grab	grab	grab	grab	grab
Frequency:	Jul/Dec	Jul/Dec	Jul/Dec	Jul/Dec	Jan/Aug	Jan/Aug	Jan/Aug	Jan/Aug	every 12 mo	every 3 mo
Date										
07/01/21					due 08/21	due 08/21	due 08/21	due 08/21		due 08/21
07/02/21										
07/03/21										
07/04/21										
07/05/21										
07/06/21									< 15	
07/07/21										
07/08/21										
07/09/21										
07/10/21										
07/11/21										
07/12/21										
07/13/21	Routine	Absence	Absence	0.56						
07/14/21										
07/15/21										
07/16/21										
07/17/21										
07/18/21										
07/19/21										
07/20/21										
07/21/21										
07/22/21										
07/23/21										
07/24/21										
07/25/21										
07/26/21										
07/27/21										
07/28/21										
07/29/21										
07/30/21										
07/31/21										
Average:		0	0	0.56					< 15	
High:		0	0	0.56					< 15	
Low:		0	0	0.56					< 15	
DL/RL:									5/15	10/5
Method:		SM9223B-18	SM9223B-18	SM4500-C1 G		SM9223B-18	SM9223B-18	SM4500-C1 G	EPA 200.8	EPA 200.8
Limit1:		mx d < 1	mx d < 1	mn d >= 0.05		mx d < 1	mx d < 1	mn d >= 0.05		
Over/Total:		0/1	0/1	0/1		0/0	0/0	0/0		

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Station:	400 Ranch	400 Ranch	400 Ranch	400 Ranch	LaHondaRd	LaHondaRd	LaHondaRd	LaHondaRd
Test:	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID
Units:	TYPE	pres./abs.	pres./abs.	mg/L	TYPE	pres./abs.	pres./abs.	mg/L
Type:	observation	grab	grab	grab	observation	grab	grab	grab
Frequency:	Feb/Sep	Feb/Sep	Feb/Sep	Feb/Sep	as needed	as needed	as needed	as needed

Date				
07/01/21	due 09/21	due 09/21	due 09/21	due 09/21
07/02/21				
07/03/21				
07/04/21				
07/05/21				
07/06/21				
07/07/21				
07/08/21				
07/09/21				
07/10/21				
07/11/21				
07/12/21				
07/13/21				
07/14/21				
07/15/21				
07/16/21				
07/17/21				
07/18/21				
07/19/21				
07/20/21				
07/21/21				
07/22/21				
07/23/21				
07/24/21				
07/25/21				
07/26/21				
07/27/21				
07/28/21				
07/29/21				
07/30/21				
07/31/21				

Average:  
 High:  
 Low:

Method:	SM9223B-18	SM9223B-18	SM4500-C1 G	SM9223B-18	SM9223B-18	SM4500-C1 G
Limit1:	mx d < 1	mx d < 1	mn d >= 0.05	mx d < 1	mx d < 1	mn d >= 0.05
Over/Total:	0/0	0/0	0/0	0/0	0/0	0/0

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Station:	LHW OPERATOR	LHW ACTIONS	Raw Water PH	Raw Water ALKALINITY	Raw Water IRON	TreatedWtr IRON	Raw Water NITRATE-N
Test:	units	comments	std units	mg/L-CaCO3	ug/L	ug/L	mg/L
Units:	observation	observation	grab	grab	grab	grab	grab
Type:	as needed	as needed	weekly	as needed	every 3 mo	every 3 mo	every 3 mo
Frequency:							
Date							
07/01/21					due 08/21	due 08/21	
07/02/21	KB						
07/03/21							
07/04/21							
07/05/21							
07/06/21	KB		8.41				< 0.4
07/07/21	KB						
07/08/21							
07/09/21							
07/10/21							
07/11/21							
07/12/21							
07/13/21	SC						
07/14/21	SC						
07/15/21							
07/16/21							
07/17/21							
07/18/21							
07/19/21							
07/20/21							
07/21/21							
07/22/21							
07/23/21	KB		8.44				
07/24/21							
07/25/21							
07/26/21	KB		8.37				
07/27/21							
07/28/21							
07/29/21							
07/30/21							
07/31/21							
Average:			8.41				< 0.4
High:			8.44				< 0.4
Low:			8.37				< 0.4
DL/RL:				3/2	20/20	20/10	0.03/0.4
Method:			SM4500-H+ B	SM2320B	EPA 200.8	EPA 200.8	SM4500-NO3 D
Limit1:							mx d <= 10
Over/Total:							0/1

## Monthly Summary of Distribution System Coliform Monitoring

System Name: La Honda Water System (CSA #7)	System Number: 4100509
Sampling Period	Year: 2021
Month: July	

	Number Required	Number Collected	Number Total Coliform Positives	Number Fecal/ E. coli Positives
1. Routine Samples (see note 1)	<u>1</u>	<u>1</u>	<u>0</u>	<u>0</u>
2. Repeat Samples Following Samples Which are Total Coliform Positive and Fecal/E. coli <i>Negative</i> (see notes 5 and 6)		<u>0</u>	<u>        </u>	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>
3. Repeat Samples Following Routine Samples Which are Total Coliform Positive and Fecal/ E. coli <i>Positive</i> (see notes 5 and 6)		<u>0</u>	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>
4. MCL Computation For Total Coliform Positive Samples				
a. Totals (sum of columns)		<u>1</u>	<u>0</u>	
b. If 40 or more samples collected in month, determine percent of samples that are total confirm positive. [(total number positive/total number collected)x100]				
c. Is system in compliance... ..with fecal/E.coli MCL? (see notes 2 and 3)		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
...with monthly MCL? (see note 4)		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

5. Invalidated Samples

(Note what samples, if any, were invalidated; why they were invalidated; who authorized the invalidation; and when replacement samples were collected. Attach additional sheets, if necessary.)

6. Summary Completed By:

Signature 	Title Water System Engineer	Date 8/10/2021
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Notes and Instructions:

1. Routine samples include:
  - a. Samples required per 22, CCR, Section 64423;
  - b. Extra samples required for systems collecting less than five routine samples per month that had one or more total coliform positives in previous month;
  - c. Extra samples for systems with high source water turbidities that are using surface water or groundwater under the direct influence of surface water do not practice filtration in compliance with regulations.
2. Note: For a repeat sample following a total coliform positive sample, any fecal/E. coli positive repeat (boxed entry) *constitutes an MCL violation and requires immediate notification to the Department* (22, CCR, Section 64426.1).
3. Note: For a repeat sample following a fecal/E. coli positive sample, any total coliform positive repeat (boxed entry) *constitutes an MCL violation and requires immediate notification to the Department* (22, CCR, Section 64426.1).
4. Total coliform MCL (*Notify Department within 24 hours of MCL violation*):
  - a. For systems collecting less than 40 samples, if two or more samples are total coliform positive, then the MCL is violated.
  - b. For systems collecting 40 or more samples, if more than 5.0 percent of samples collected are total coliform positive, then the MCL is violated.
5. Positive results and their associated repeat samples must be tracked on the worksheet on the other side.
6. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. Repeat samples must be collected within 24 hours of being notified of the positive result.

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

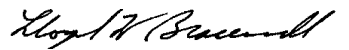
Date of Report: 8/10/2021

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

System Number: 4100509

Laboratory: BEI Analytical Laboratory

Elap No: 3019

Signature of Lab Director: 

Report Period from: 7/1/2021 to 7/31/2021

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
7/13/2021			251 Pescadero Creek Road	1	A	A	SM 9223 B-18
7/13/2021			Raw Water	4	67.6	13.2	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: July Year: 2021

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										
4										
5										
6	3.71					0.05	0.04	0.04	0.04	3.3
7	0.87		0.05	0.04	0.04	0.04	0.04	0.04	0.04	3.7
8	0.58		0.04						0.04	3.9
9										
10										
11										
12	0.97					0.05	0.05	0.04	0.05	2.5
13	0.94		0.05	0.05	0.04		0.05	0.04	0.05	2.3
14	1.10					0.05	0.04		0.05	2.7
15										
16										
17										
18										
19	3.55					0.05	0.04	0.04	0.04	4.1
20	0.99		0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.1
21	0.94		0.04						0.04	3.6
22	1.14						0.05	0.04	0.05	2.5
23	1.10		0.04	0.05	0.04				0.04	2.5
24										
25										
26	0.75					0.04	0.04	0.04	0.04	2.5
27	0.63		0.04	0.04	0.04				0.04	2.8
28										
29										
30										
31	1.22							0.02	0.02	4.0
Ave.	1.32								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: 42 No. of Readings ≤ 0.3 NTU: 42

% 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 =  $\frac{[(\text{Average Raw NTU} - \text{Average Effluent NTU})]}{(\text{Average Raw NTU})} \times 100 = \underline{97\%}$

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): 0.050

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)
3/13/2019	Hach, raw wtr	0/20 Formazin	3/13/2019	Hach, treated	0/20 Formazin
5/17/2019	Hach, raw wtr	0/20 Formazin	5/17/2019	Hach, treated	0/20 Formazin
7/15/2019	Hach, raw wtr	0/20 Formazin	7/15/2019	Hach, treated	0/20 Formazin
10/17/2019	Hach, raw wtr	0/20 Formazin	10/17/2019	Hach, treated	0/20 Formazin
4/3/2020	Hach, raw wtr	0/20 Formazin	4/3/2020	Hach, treated	0/20 Formazin
7/2/2020	Hach, raw wtr	0/20 Formazin	7/2/2020	Hach, treated	0/20 Formazin
10/28/2020	Hach, raw wtr	0/20 Formazin	10/28/2020	Hach, treated	0/20 Formazin
1/29/2021	Hach, raw wtr	0/20 Formazin	1/29/2021	Hach, treated	0/20 Formazin
4/22/2021	Hach, raw wtr	0/20 Formazin	4/22/2021	Hach, treated	0/20 Formazin
7/28/2021	Hach, raw wtr	0/20 Formazin	7/28/2021	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: 8/10/2021