

January 10, 2022

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

Re: December 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 monitoring report, the Coliform Reporting Form, and the Monthly Summary of Monitoring for Surface Water Treatment Regulations for the La Honda Water System.

### **Disinfection Byproducts**

The quarterly disinfection byproducts monitoring was completed and the TTHM running annual average of 59.3 ug/L was in compliance with its MCL of 80 ug/L and the HAA5 running annual average of 34.8 ug/L was in compliance with its MCL of 60 ug/L.

Chlorine residuals were maintained as required. Turbidity levels did not exceed 0.3 NTU when treating water for domestic use. The minimum disinfection CT ratio was 2.0 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

Hogel V Bracewill

Water System Engineer

cc: San Mateo County, CSA #7

**BEI Office** 

Station: Test: Units: Type: Frequency:	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
Date 12/01/21 12/02/21 12/03/21 12/04/21	32450 32450 0	15.9 13.2	7.96 7.71	1.27 2.48	35.77 69.85	18.2 22.3	2.0 3.1	0.04 0.04	0.50 0.34	
12/05/21 12/06/21 12/07/21 12/08/21 12/09/21 12/10/21 12/11/21 12/12/21 12/13/21	0 37600 37600 37600 0 0 0	13.2 13.2 13.2	7.93 7.89 7.73	2.61 2.38 2.35	73.51 67.04 66.19	24.3 23.6 22.3	3.0 2.8 3.0	0.04 0.04 0.04	1.48 0.75 0.43	KB
12/14/21 12/15/21 12/16/21 12/17/21 12/18/21 12/19/21	0 37100 0 0 0	9.7	7.71	2.14	60.28	27.8	2.2	0.05	0.41	KB
12/19/21 12/20/21 12/22/21 12/23/21 12/24/21 12/25/21 12/26/21 12/27/21 12/28/21 12/29/21 12/30/21	48000 26900 26900 0 0 0 0 0	12.6 12.6 12.6	7.47 7.73 7.43	2.21 2.19 2.12	62.25 61.68 59.71	21.0 23.0 20.6	3.0 2.7 2.9	0.05 0.04 0.05	5.54 3.89 2.94	КВ
12/31/21	50033	11.7	7.47	1.73	48.73	21.6	2.3	0.04	7.76	
Average: High: Low: Total:	11827 50033 0 366633	12.8 15.9 9.7	7.70 7.96 7.43	2.15 2.61 1.27	60.50 73.51 35.77	22.5 27.8 18.2	2.7 3.1 2.0	0.04 0.05 0.04	2.40 7.76 0.34	
Method:	000000	SM2550B	SM4500-H+ B	SM4500-C1 G				SM2130B	SM2130B	
Limit1: Over/Total:				mn d >= 0.20 0/10			mn $d \ge 1.0$ 0/10	$\max_{0/10} d \le 0.3$		

Date 12/01/21 12/02/21 12/03/21 12/04/21 12/05/21	Raw Water SAMPL TYPE TYPE observation as needed	Raw Water COLIFORM MPN/100mL grab monthly	Raw Water E. COLI MPN/100mL grab monthly	APN 240070 SAMPL TYPE TYPE observation Mar/May/Oct due 03/22	APN 240070 COLIFORM pres./abs. grab Mar/May/Oct 2 due 03/22	APN 240070 E. COLI pres./abs. grab Mar/May/Oct due 03/22	APN 240070 CL2 RESID mg/L grab Mar/May/Oct due 03/22	OldCl2Sta SAMPL TYPE TYPE observation Apr/Jun/Nov due 04/22	OldCl2Sta COLIFORM pres./abs. grab Apr/Jun/Nov 2 due 04/22	OldCl2Sta E. COLI pres./abs. grab Apr/Jun/Nov due 04/22	OldCl2Sta CL2 RESID mg/L grab Apr/Jun/Nov due 04/22
12/06/21 12/07/21 12/08/21 12/09/21 12/10/21 12/11/21 12/11/21 12/13/21 12/14/21 12/15/21 12/16/21 12/17/21 12/19/21 12/19/21 12/20/21 12/23/21 12/24/21 12/25/21 12/25/21 12/26/21 12/27/21 12/28/21 12/29/21 12/30/21 12/30/21	Other	241.5	5.2								
Average: High: Low: DL/RL: Method:		241.5 241.5 241.5 1.0/1.0 SM9223 B-18	5.2 5.2 5.2 1.0/1.0 SM9223 B-18		SM9223B-18	SM9223B-18	SM4500-C1 G		SM9223B-18	SM9223B-18	SM4500-C1 G
Limit1: Over/Total	:				$\max_{0/0} d < 1$	$\max_{0/0} < 1$	mn d >= 0.05		$\max_{0/0} d < 1$	$\max_{0/0} d < 1$	$mn d \ge 0.05$

WATER SYSTEM MONITORING REPORT
La Honda Water System (CSA No. 7) Water Re
555 County Center, 5th Floor Division
Redwood City, CA 94063
System No. 4100500

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

System No.	4100509			d, CA 98804	, brug r						
Station: Test: Units: Type: Frequency: Date	251 PescCr SAMPL TYPE TYPE observation Jul/Dec	251 PescCr COLIFORM pres./abs. grab Jul/Dec	251 PescCr E. COLI pres./abs. grab Jul/Dec	251 PescCr CL2 RESID mg/L grab Jul/Dec	460 Pescdr SAMPL TYPE TYPE observation Jan/Aug	460 Pescdr COLIFORM pres./abs. grab Jan/Aug	460 Pescdr E. COLI pres./abs. grab Jan/Aug	460 Pescdr CL2 RESID mg/L grab Jan/Aug	Raw Water ALUMINUM ug/L grab every 12 mo	TreatedWtr ALUMINUM ug/L grab every 3 mo	
12/01/21 12/02/21 12/03/21 12/04/21 12/05/21 12/06/21					due 01/22	due 01/22	due 01/22	due 01/22	due 07/22	due 02/22	
12/07/21 12/08/21 12/09/21 12/10/21 12/11/21 12/12/21 12/13/21 12/14/21 12/15/21 12/16/21 12/17/21 12/18/21 12/19/21 12/20/21	Routine	Absence	Absence	2.19							

SM9223B-18

0/0

mx d < 1

SM9223B-18

0/0

mx d < 1

SM4500-C1 G

mn  $d \ge 0.05$ 

10/5 EPA 200.8

10/5

EPA 200.8

01/07/22 11:42:19

12/20/21 12/21/21 12/22/21 12/23/21 12/24/21 12/25/21 12/26/21 12/27/21

12/28/21 12/29/21 12/30/21 12/31/21

Average: High:

Low:

DL/RL:

Method:

Limit1:

Over/Total:

0

0

0

mx d < 1

SM9223B-18

0/1

2.19 2.19 2.19

SM4500-C1 G

0/1

mn d >= 0.05

0

0

0

mx d < 1

0/1

SM9223B-18

Jystelli No.	4100303		KICIIIIOII	u, ch 3000+				
Station: Test: Units: Type: Frequency:	400 Ranch SAMPL TYPE TYPE observation Feb/Sep	400 Ranch COLIFORM pres./abs. grab Feb/Sep	400 Ranch E. COLI pres./abs. grab Feb/Sep	400 Ranch CL2 RESID mg/L grab Feb/Sep	LaHondaRd SAMPL TYPE TYPE observation as needed	LaHondaRd COLIFORM pres./abs. grab as needed	LaHondaRd E. COLI pres./abs. grab as needed	LaHondaRd CL2 RESID mg/L grab as needed
Date 12/01/21 12/02/21 12/03/21 12/04/21 12/05/21 12/06/21 12/07/21 12/08/21 12/10/21 12/10/21 12/11/21 12/11/21 12/11/21 12/15/21 12/16/21 12/17/21 12/18/21 12/19/21 12/20/21 12/23/21 12/25/21 12/25/21 12/26/21 12/29/21 12/30/21 12/31/21	due 02/22	due 02/22	due 02/22	due 02/22				
Average: High: Low:								
Method:		SM9223B-18	SM9223B-18	SM4500-C1 G		SM9223B-18	SM9223B-18	SM4500-C1 G
Limit1: Over/Total:	:	$\max_{0/0} d < 1$		mn d >= 0.05		$\max_{0/0} d < 1$	$\max_{0/0} d < 1$	mn d >= 0.05

Station: Test: Units: Type: Frequency:	LHW OPERATOR units observation as needed	LHW ACTIONS comments observation as needed	Raw Water PH std units grab weekly	Raw Water ALKALINITY mg/L-CaCO3 grab as needed	Raw Water IRON ug/L grab every 3 mo	TreatedWtr IRON ug/L grab every 3 mo	Raw Water NITRATE-N mg/L grab every 3 mo
Date 12/01/21 12/02/21 12/03/21 12/04/21 12/05/21	<b>1</b> /D		0.14		due 02/22	due 02/22	due 01/22
12/06/21 12/07/21 12/08/21 12/09/21 12/10/21 12/11/21 12/12/21 12/13/21	КВ		8.14				
12/14/21 12/15/21 12/16/21 12/17/21 12/18/21	КВ		8.40				
12/19/21 12/20/21 12/21/21 12/22/21 12/23/21 12/23/21 12/25/21 12/25/21 12/26/21 12/27/21 12/28/21 12/29/21 12/30/21	КВ		8.25				
12/31/21	KB						
Average: High: Low:			8.26 8.40 8.14	272	20.720	20 /10	0.02070.40
DL/RL: Method:			SM4500-H+ B	3/2 SM2320B	20/20 EPA 200.8	20/10 EPA 200.8	0.030/0.40 SM4500-NO3 D
Limit1: Over/Total:							$mx d \le 10$

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

Date of Report: 1/10/2022 System Name: La Honda Water System (CSA #7) System Number: 4100509

Report Period from: 12/1/2021 to 12/31/2021 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
12/7/2021			Old Chlorination Station	1	A	A	SM 9223B-18
12/7/2021			Raw Water	4	241.5	5.2	SM 9223 B-18 (MPN)

1 =Routine P =Present

2 = Repeat A = Absent

3 = Replacement

4 = Other

# Monthly Summary of Monitoring For Surface Water Treatment Regulations

System Name: <u>La Honda Water System (CSA #7)</u> System Number: <u>4100509</u>

Treatment Plant Name: <u>La Honda Water System (CSA #7)</u> Month: December Year: 2021

Treated Water Turbidities Every Four Hours (NTU)\*

	Peak Raw	Peak Settled	Midnight	0400	0800	Noon	1600	2000	Average	Minimum
	Water	Water	to	to	to	to	to	to	Treated	Ct.
Date	Turbidity	Turbidity	0400	0800	Noon	1600	2000	Midnight	Water	Ratio
1	0.50				0.04	0.04	0.03	0.03	0.04	2.0
2	0.34		0.03	0.03	0.04				0.03	3.1
3										
4										
5										
6	1.48					0.04	0.04	0.03	0.04	3.0
7	0.75		0.03	0.03	0.04	0.04	0.04	0.04	0.04	2.8
8	0.43					0.03	0.03	0.03	0.03	3.0
9										
10										
11										
12										
13										
14										
15	0.41					0.04	0.04		0.04	2.2
16										
17										
18										
19										
20	5.54					0.04	0.04	0.04	0.04	3.0
21	3.89		0.04	0.04	0.04	0.04	0.04	0.04	0.04	2.7
22	2.94		0.04	0.05	0.04				0.04	2.9
23										
24										
25										
26										
27										
28										
29										
30										
31	7.76						0.04	0.04	0.04	2.3
Ave.	2.40						-		0.04	

Total No. of Samples: 35 No. of Readings  $\leq 0.3$  NTU: 35

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

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

Percent reduction during the month =  $\frac{1}{2} \frac{1}{2} \frac$ 

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

	turbidity greater t	han 1.0 NTU							
Date of Inci	dent								
Value									
Duration									
		where turbidity is $> 1.0$				0			
Total Numb		where turbidity is $> 5.0$				0			
	Meets Standard	Is (i.e. NTU is not $> 1.0$	for more th	an eight consec	utive hours) (Y/N)?	<u>Y</u>			
criteria:		·	erruption (e	g. backwashing	), did the filter effluen	t comply with the following			
	0 NTU after all	` ,				Y			
		% of events (Y/N)?				Y			
c. < 0.	5 NTU after 4 h	iours (Y/N)?				Y			
Indicate the	date that the tu	rbidimeters that are used	d for regulat	ory monitoring	purposes were calibra	ted			
	Which	Standard used	Date	Which	Standard Used				
Date	Turbidimeter	(primary/secondary)		Turbidimeter	(primary/secondary)				
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	1			
4/3/2020	Hach, raw wtr	0/20 Formazin	4/3/2020	Hach, treated	0/20 Formazin	1			
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				
10/27/2021	Hach, raw wtr	0/20 Formazin	10/27/2021	Hach, treated	0/20 Formazin	-			
		Dis	sinfection	Process Data					
Disinfectan	t residual type:	free chlorine:	X	combined chlor	rine:	other (specify)			
Incidents of	chlorine residu	als less than 0.2 ppm at	the plant ef	fluent:					
Date of Inci		Ppin ut	praint of	<del>-</del>					
Duration									
Date Dept.	Notified								
Total numb		where residual is < 0.2 p				0			
	Meets standard	(i.e. not less than 0.2 p	pm for more	than four hour	s) (Y/N <u>)?</u>	Y			
No. of distr	ibution system 1	residual samples collecte	ed:			2			
	•	amples for HPC only:							
Total No. residual and/or HPC samples collected:									
	No. of samples with no detectable residual and HPC is not measured:								
		dual and HPC > 500 Cl							
		ly and HPC > 500 CFU							
Total No. S	amples with no	residual and/or HPC >	500 CFU/m	l:		0			
Compute V	where $V = [1]$	- ( Total number of san (Total number of resi	_			100%			
	Meets Standard	l (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:	Horal V Bracendl
Date:	1/10/2022

### Quarterly Report for Disinfectant Residuals Compliance For Systems Using Chlorine or Chloramines

System Name:	La Honda Water System (CSA #7)	System No.:	4100509
Calandar Voor:	2021	Quarter	

		1st Quarter	
	Month	Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)
	April		0.36
	May		0.31
	June		0.12
10	July		1.01
7/12/2010	August		1.16
7/1	September		0.69
	October		0.53
	November		1.41
L	December		0.23
/ear	January	1	0.12
Surrent Year	February	11	0.54
Cur	March	1	1.14
Rι	unning Annual A	0.64	
	eets standard? e. RAA <u>&lt;</u> MRDL of	Yes	

	2nd Quarter									
	Month	Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)							
	July		1.01							
ar	August		1.16							
s Ye	September		0.69							
Previous Year	October		0.53							
Pr	November		1.41							
	December		0.23							
	January		0.12							
¥.	February		0.54							
Current Year	March		1.14							
urren	April	1	1.94							
ō	Мау	1	1.08							
	June	16	0.81							
Rι	ınning Annual A	0.89								
	eets standard? e. RAA <u>&lt;</u> MRDL of	4.0 mg/L as Cl <sub>2</sub> )	Yes							

3rd Quarter									
	Month	Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)						
Ϋ́	October		0.53						
Previous Yr	November		1.41						
Pre	December		0.23						
	January		0.12						
	February		0.54						
	March		1.14						
/ear	April		1.94						
Current Year	May		1.08						
Curr	June		0.81						
	July	1	0.56						
	August	1	1.00						
	September	1	1.45						
Rι	ınning Annual A	0.90							
	eets standard? e. RAA <u>&lt;</u> MRDL of	Yes							

		4th Quarter	
	Month	Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)
	January		0.12
	February		0.54
	March		1.14
	April		1.94
¥	May		1.08
Current Year	June		0.81
ırren	July		0.56
Ō	August		1.00
	September		1.45
	October	2	1.09
	November	1	1.30
	December	1	2.19
Rι	ınning Annual A	1.10	
	eets standard? . RAA <u>&lt;</u> MRDL of	4.0 mg/L as Cl <sub>2</sub> )	Yes

Comments:			

### **Quarterly TTHM Report for Disinfection Byproducts Compliance (in μg/L or ppb)**

													`								
Syste	em Name:		La Hon	da Wate	r Syster	n (CSA	#7)			Syst	em No.:		410050	9	Year:	2(	)21	. (	Quarter:		4
	Year:		20	017			20	)18			20	)19			20	)20			20	)21	
		1st Qtr.		3rd Qtr.	4th Qtr.	1st Qtr.			4th Qtr.	1st Qtr.	2nd Qtr.		4th Qtr.	1st Qtr.	2nd Qtr.		4th Qtr.	1st Qtr.		3rd Qtr.	4th Qtr.
S	ample Date (month/date):	3/13	6/15	9/25	12/13	3/26	6/13	9/12	12/19	3/5	6/19	9/11	12/17	3/10	6/9	9/8	12/1	3/1	6/14	9/8	12/7
Site		86.0	38.7	142.1	98.3	123.4	96.1	56.8	135.1	79.5	62.5	115.2	104.6	61.2	40.0	39.0	67.0	38.0	71.0	53.0	75.1
	Quarterly Average	86.0	38.7	142.1	98.3	123.4	96.1	56.8	135.1	79.5	62.5	115.2	104.6	61.2	40.0	39.0	67.0	38.0	71.0	53.0	75.1
Rι	unning Annual Average	77.7	79.8	90.2	91.3	100.6	115.0	93.6	102.8	91.8	83.5	98.1	90.5	85.9	80.3	61.2	51.8	46.0	53.8	57.3	59.3
Me	ets Standard (80 ug/L)?*	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Nu	mber of Samples Taken	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	ify the sample locations in																				
Site		5	sample i	Location																	
1	Old Chlorination Station																				
2																					
3																					
4									4												
5																					
6									-												
7									ł			۲	1_1	2/3	, ,,,,	11			4	/10/202	20
8									1		Signati	<u> </u>	loge	1100	gicli	7007				/ 10/202	
9									-		Signall	il <del>C</del>							Date		
10									-		*If, durir	ng the firs	st year of	monitori	ng, any ii	ndividual	quarter's	average	will caus	se the rur	nning

<sup>\*</sup>If, during the first year of monitoring, any individual quarter's average will cause the running annual average of that system to exceed the standard, then the system is out of compliance at the end of that quarter.

### Quarterly HAA5 Report for Disinfection Byproducts Compliance (in $\mu g/L$ or ppb)

System Name:		La	Honda \	Water S	ystem				Syst	em No.:		4100509	9	Year:	2	021	. (	Quarter:		4
Year:		20	)17		2018				2019					20	)20			20	)21	
Quarter:	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Sample Date (month/date):	3/13	6/15	9/25	12/13	3/26	6/13	9/12	12/19	3/5	6/19	9/11	12/17	3/10	6/9	9/8	12/1	3/1	6/14	9/8	12/7
Site 1	66.1	25.0	71.0	40.0	45.6	61.2	24.6	45.9	46.0	44.3	64.0	83.5	101.6	69.0	29.0	32.0	25.0	55.0	19.0	40.0
Site 1 Sample																				
Site 3																				
Site 4																				
Site 5																				
Site 6																				
Site 7																				
Site 8																				
Site 9																				
Site 10																				
Site 11																				
Site 12																				
Quarterly Average	66.1	25.0	71.0	40.0	45.6	61.2	24.6	45.9	46.0	44.3	64.0	83.5	101.6	69.0	29.0	32.0	25.0	55.0	19.0	40.0
Running Annual Average	41.5	42.1	53.0	50.5	45.4	54.5	42.9	44.3	44.4	40.2	50.1	59.5	73.4	79.5	70.8	57.9	38.8	35.3	32.8	34.8
Meets Standard (60 ug/L)?*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
Number of Samples Taken	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Identify the sample locations in	the tab	le below	<i>1</i> .																	
Site	S	Sample L	_ocation																	
1 Old Chlorination Station																				
2																				
3																				
4																				
5																				
6																				
7											رم	1-	-1		//					
8											Tho	17	Stac	embl				1	/10/202	22
									Signature						Date					
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the end of that quarter.

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