



BRACEWELL ENGINEERING, INC.

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October 10, 2024

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

Re: September 2024 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 following:

1. Monitoring Report
 2. Lab Results
 3. Coliform Reporting Form
 4. Surface Water Reports
 5. Quarterly Report for Disinfectant Residuals Compliance
 6. Quarterly TTHM & HAA5 Reports for Disinfection Byproducts Compliance
- The County electrician visited the storage tank to investigate the aeration issue. During the visit, the pump tripped the breaker once but did not trip again. Both the voltage and breaker were inspected, and no problems were found. A data logger will be installed once one becomes available, as all units are currently in use.
 - 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 2.7 for a DDW required 1- log removal for Giardia.
 - The quarterly disinfection byproducts monitoring was completed and the TTHM running annual average of 62.3 ug/L was in compliance with its MCL of 80 ug/L and the HAA5 running annual average of 38.5 ug/L was in compliance with its MCL of 60 ug/L.

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

Respectfully submitted,
BRACEWELL ENGINEERING, INC.

Alan Bracewell
Staff Engineer

LHW Log Sheets

Location			Plant On	Raw Water	Raw Water	Treated Water	Backwash	Inlet	Inlet	Inlet	
Parameter			SW Plant	Tank	Flow	Average Flow	Flow	pH	Max Turbidity	Turbidity	
frequency			daily	daily	calculation	calculation	calculation	weekly	daily	weekly	
Units			Y/N	ft	gal/d	gal/d	gal/d	units	ntu	ntu	
Type				level	flow		flow		Analyzer	Grab	
High Limit											
Low Limit											
Date	Initials	Time									
9/1/2024			Y			50,575	4,975				
9/2/2024			Y			50,575	4,975				
9/3/2024	KB	1030	Y	13.4		50,575	4,975				
9/4/2024			N		173	-	200				
9/5/2024			N		173	-	200				
9/6/2024			N		173	-	200				
9/7/2024			N		173	-	200				
9/8/2024			N		173	-	200				
9/9/2024			N		173	-	200				
9/10/2024			N		173	-	200				
9/11/2024			N		173	-	200				
9/12/2024			N		173	-	200				
9/13/2024			N		173	-	200				
9/14/2024			N		173	-	200				
9/15/2024			N		173	-	200				
9/16/2024			N		173	-	200				
9/17/2024	KB	1100	Y	15.04	173	1,700	200	8.48	1.24	1.21	
9/18/2024			Y		33,176	28,150	2,900				
9/19/2024	KB	930	Y	14.03	33,176	28,150	2,900		1.36		
9/20/2024			Y		19,971	45,900	1,845				
9/21/2024			Y		19,971	45,900	1,845				
9/22/2024			Y		19,971	45,900	1,845				
9/23/2024			N		19,971	-	1,845				
9/24/2024			N		19,971	-	1,845				
9/25/2024			N		19,971	-	1,845				
9/26/2024			N		19,971	-	1,845				
9/27/2024			N		19,971	-	1,845				
9/28/2024			N		19,971	-	1,845				
9/29/2024			N		19,971	-	1,845				
9/30/2024	KB	1330	Y	14.15	19,971	45,900	1,845	8.44	2.38	2.02	
Min				0	13.4	173	-	200	8.44	1.239	1.21
Max				0	15.04	33,176	50,575	4,975	8.48	2.379	2.02
Average					14	10,683	13,111	1,461	8	2	2
Total						288,446	393,325	43,825			

LHW Log Sheets

Location	Inlet	Creek	Air	Air	Filter Inlet	Contact Pipe	Contact Pipe	Contact Pipe	Contact Pipe	Contact Pipe
Parameter	Temp.	Water Level	Temp	Percip	Turbidity	Max pH	Max Turbidity	Min Temp	Min CL2	pH
frequency	weekly	monthly	daily	daily	weekly	daily	daily	daily	daily	weekly
Units	C	inches	C	%	ntu	units	ntu	C	mg/L	units
Type	Grab	grab			Grab	Analyzer	Analyzer	Analyzer	Analyzer	Grab
High Limit										
Low Limit										
Date										
9/1/2024										
9/2/2024										
9/3/2024										
9/4/2024										
9/5/2024										
9/6/2024										
9/7/2024										
9/8/2024										
9/9/2024										
9/10/2024										
9/11/2024										
9/12/2024										
9/13/2024										
9/14/2024										
9/15/2024										
9/16/2024										
9/17/2024	16.6		14.3	40%	1.64	7.9	0.204	16.9	2.30	7.94
9/18/2024										
9/19/2024			13.1	44%		7.6	0.098	16.5	1.76	
9/20/2024										
9/21/2024										
9/22/2024										
9/23/2024										
9/24/2024										
9/25/2024										
9/26/2024										
9/27/2024										
9/28/2024										
9/29/2024										
9/30/2024	21.7	14"	27.2	29%	0.31	7.8	0.071	16.6	1.54	7.81
Min	16.6	0	13.1	29%	0.31	7.6	0.071	16.5	1.54	7.81
Max	21.7	0	27.2	44%	1.64	7.9	0.204	16.9	2.3	7.94
Average	19		18	0%	1	8	0	17	2	8
Total										

LHW Log Sheets

Location	Contact Pipe	Contact Pipe	Contact Pipe		TW Storage Tank	TW Storage Tank	TW Storage Tank	TW Storage Tank	
Parameter	Turbidity	Temp	CL2		Level	Temp	pH	cl2 residual	
frequency	weekly	weekly	weekly		weekly	weekly	weekly	weekly	
Units	ntu	C	mg/L		ft	C	Units	ppm	
Type	Grab	Grab	Grab		Visual				
High Limit							17	8.5	2
Low Limit							6.5	7.5	0.3
Date									
9/1/2024									
9/2/2024									
9/3/2024									KB
9/4/2024									
9/5/2024									
9/6/2024									
9/7/2024									
9/8/2024									
9/9/2024									
9/10/2024									
9/11/2024									
9/12/2024									
9/13/2024									
9/14/2024									
9/15/2024									
9/16/2024									
9/17/2024	0.31	17.1	2.19						
9/18/2024									
9/19/2024				KB	23.1	15.9	8.41	1.95	KB
9/20/2024									
9/21/2024									
9/22/2024									
9/23/2024									
9/24/2024									
9/25/2024									
9/26/2024									
9/27/2024									
9/28/2024									
9/29/2024									
9/30/2024	0.14	18.6	1.46						
Min	0.14	17.1	1.46	0	23.1	15.9	8.41	1.95	0
Max	0.31	18.6	2.19	0	23.1	15.9	8.41	1.95	0
Average	0	18	2		23	16	8	2	
Total									

LHW Log Sheets

Location	Routine Sample Site			
Parameter	Cl2 Residual			
frequency	as needed			
Units	mg/L			
Type	grab			
High Limit				
Low Limit				
Date				
9/1/2024				
9/2/2024				
9/3/2024	1.65			
9/4/2024				
9/5/2024				
9/6/2024				
9/7/2024				
9/8/2024				
9/9/2024				
9/10/2024				
9/11/2024				
9/12/2024				
9/13/2024				
9/14/2024				
9/15/2024				
9/16/2024				
9/17/2024				
9/18/2024				
9/19/2024	1.61			
9/20/2024				
9/21/2024				
9/22/2024				
9/23/2024				
9/24/2024				
9/25/2024				
9/26/2024				
9/27/2024				
9/28/2024				
9/29/2024				
9/30/2024				
Min	1.61			
Max	1.65			
Average	2			
Total				

LHW

September

La Honda Water System (W4100509)

CALIBRATION TURBIDITY	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA08379	9/19/24	Pass						
	Treated Water	AA08380	9/19/24	Pass						
CHLORINE RESIDUAL	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	400 Ranch Rd. La Honda - Glenwood Boy's Ranch	AA09194	9/18/24	0.26	mg/L		SM 4500-CI G	0.02	0.02	Routine
COLIFORM MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA09193	9/18/24	20.1	MPN/100mL		SM9223B-18 (MPN)	1.0	1.0	Other
COLIFORM PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	400 Ranch Rd. La Honda - Glenwood Boy's Ranch	AA09194	9/18/24	A	P/A		SM9223B-18			Routine
E COLI MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA09193	9/18/24	2.0	MPN/100mL		SM9223B-18 (MPN)	1.0	1.0	Other
E COLI PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	400 Ranch Rd. La Honda - Glenwood Boy's Ranch	AA09194	9/18/24	A	P/A		SM9223B-18			Routine
TOTAL HAA5	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Old Chlorination Station- Sam McDonald Park	AA09195	9/18/24	61	µg/L	60	EPA 552.2			
TTHM	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Old Chlorination Station- Sam McDonald Park	AA09195	9/18/24	59	µg/L	80	EPA 551.1			
UV254 PERF	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA08991	9/4/24	94.4	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA09304	9/18/24	61.8	1/cm		SM 5910B			
				HIGH 94.40	AVG 78.10	LOW 61.80				
	Treated Water	AA08992	9/4/24	102.0	1/cm		SM 5910B			
	Treated Water	AA09305	9/18/24	81.8	1/cm		SM 5910B			
				HIGH 102.00	AVG 91.90	LOW 81.80				

Monthly Summary of Monitoring For Surface Water Treatment Regulations

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

System Number: CA4100509

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

Month: September Year: 2024

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	2.52		0.09	0.08	0.08	0.09	0.08	0.08	0.08	4.4
2	2.36		0.09	0.08	0.08	0.09	0.08	0.08	0.08	4.3
3	2.23		0.09	0.08	0.08				0.08	3.6
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	5.83				0.12	0.21			0.16	2.7
18	11.36					0.09	0.09	0.11	0.09	3.3
19	19.98		0.09	0.08	0.13	0.06	0.06	0.10	0.09	3.8
20	1.24		0.06	0.06	0.12	0.06	0.06	0.13	0.08	3.7
21	1.26		0.07	0.06	0.06	0.06	0.06	0.12	0.07	3.6
22	1.29		0.06	0.06		0.07	0.06	0.12	0.08	3.6
23										
24										
25										
26										
27										
28										
29										
30	5.76					0.06	0.06	0.06	0.06	4.1
31										
Ave.	5.38								0.08	2.7

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

Total No. of Samples: 46 No. of Readings ≤ 0.3 NTU: 46

% 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 = 98%

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) 0.130

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)
1/27/2023	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
9/27/2023	Hach, raw wtr	0/20 Formazin	9/27/2023	Hach, treated	0/20 Formazin
12/28/2023	Hach, raw wtr	0/20 Formazin	12/28/2023	Hach, treated	0/20 Formazin
3/28/2024	Hach, raw wtr	0/20 Formazin	3/28/2024	Hach, treated	0/20 Formazin
6/25/2024	Hach, raw wtr	0/20 Formazin	6/25/2024	Hach, treated	0/20 Formazin
6/25/2024	Hach, raw wtr	0/20 Formazin	6/25/2024	Hach, treated	0/20 Formazin
9/19/2024	Hach, raw wtr	0/20 Formazin	9/19/2024	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:

[Handwritten Signature]

Date:

10/10/2024

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

System Name: La Honda Water System (CSA #7) System No.: CA4100509

Calendar Year: 2024 Quarter: 3

1st Quarter			
Month	Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)	
7/12/2010	April	1.10	
	May	1.16	
	June	1.09	
	July	1.48	
	August	1.63	
	September	1.70	
	October	1.29	
	November	1.32	
	December	1.06	
	Current Year	January	6
		February	14
		March	5
Running Annual Average (RAA):		1.16	
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		Yes	

2nd Quarter			
Month	Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)	
Previous Year	July	1.48	
	August	1.63	
	September	1.70	
	October	1.29	
	November	1.32	
	December	1.06	
	Current Year	January	0.36
		February	0.70
		March	0.99
		April	6
		May	5
		June	7
Running Annual Average (RAA):		1.13	
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		Yes	

3rd Quarter			
Month	Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)	
Previous Yr	October	1.29	
	November	1.32	
	December	1.06	
Current Year	January	0.36	
	February	0.70	
	March	0.99	
	April	1.36	
	May	0.93	
	June	0.78	
	July	5	
	August	5	
	September	3	
	Running Annual Average (RAA):		0.98
	Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		Yes

4th Quarter		
Month	Number of Samples Taken	Monthly Ave. Chlorine Level (mg/L)
Current Year	January	0.36
	February	0.70
	March	0.99
	April	1.36
	May	0.93
	June	0.78
	July	0.80
	August	0.98
	September	1.17
	October	
	November	
	December	
Running Annual Average (RAA):		
Meets standard? (i.e. RAA ≤ MRDL of 4.0 mg/L as Cl ₂)		

Comments:

Signature: *Steph W. Baccell*

Date: 10/10/2024

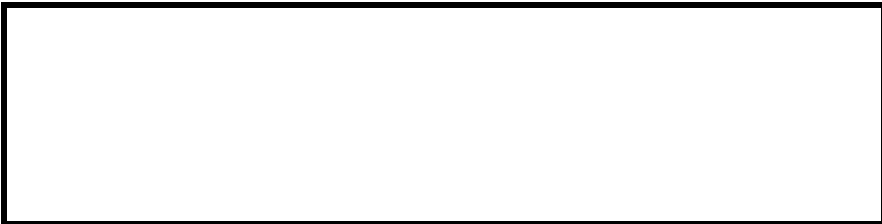
Quarterly TTHM Report for Disinfection Byproducts Compliance (in µg/L or ppb)

System Name: La Honda Water System (CSA #7) System No.: CA4100509 Year: 2024 Quarter: 3

Year:	2020				2021				2022				2023				2024			
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):	3/10	6/9	9/8	12/1	3/1	6/14	9/8	12/7	3/1	6/14	9/13	12/13	3/28	6/13	9/20	12/13	3/19	6/24	9/18	
Site 1	61.2	40.0	39.0	67.0	38.0	71.0	53.0	75.1	31.0	65.0	80.0	102.0	44.0	40.0	68.0	56.0	42.0	92.0	59.0	
Quarterly Average	61.2	40.0	39.0	67.0	38.0	71.0	53.0	75.1	31.0	65.0	80.0	102.0	44.0	40.0	68.0	56.0	42.0	92.0	59.0	
Running Annual Average	77.7	79.8	90.2	51.8	46.0	53.8	57.3	59.3	57.5	56.0	62.8	69.5	72.8	66.5	63.5	52.0	51.5	64.5	62.3	
Meets Standard (80 ug/L)?*	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	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	

Identify the sample locations in the table below.

Site	Sample Location
1	Old Chlorination Station
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	



Signature *Logan W. Bassett* Date 10/10/2024

*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 µg/L or ppb)

System Name: La Honda Water System System No.: CA4100509 Year: 2024 Quarter: 3

Year:	2020				2021				2022				2023				2024			
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):	3/10	6/9	9/8	12/1	3/1	6/14	9/8	12/7	3/1	6/14	9/13	12/13	3/28	6/13	9/20	12/13	3/19	6/24	9/18	
Site 1	101.6	69.0	29.0	32.0	25.0	55.0	19.0	40.0	22.0	35.0	43.0	87.0	19.0	32.0	42.0	34.0	31.0	28.0	61.0	
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	101.6	69.0	29.0	32.0	25.0	55.0	19.0	40.0	22.0	35.0	43.0	87.0	19.0	32.0	42.0	34.0	31.0	28.0	61.0	
Running Annual Average	41.5	42.1	53.0	57.9	38.8	35.3	32.8	34.8	34.0	29.0	35.0	46.8	46.0	45.3	45.0	31.8	34.8	33.8	38.5	
Meets Standard (60 ug/L)?*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	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	

Identify the sample locations in the table below.

Site	Sample Location
1	Old Chlorination Station
2	
3	
4	
5	
6	
7	
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Steph W. Beccard

Signature _____ Date 10/10/2024

*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.

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

Date of Report: October 08, 2024

Laboratory: BEI Analytical Laboratory (ELAP 3019)

Report Period: September, 2024

System Name: **La Honda Water System**

System Number: **CA4100509**

Collection Date	Site Name	Analyte	Sample Type	Result	Remarks	Sampler
9/18/2024	Alpine Creek - Raw Water	Coliform	Other	20.1	SM9223B-18 (MPN)	Keefe Brennan
9/18/2024	Alpine Creek - Raw Water	E. Coli	Other	2.0	SM9223B-18 (MPN)	Keefe Brennan
9/18/2024	400 Ranch Rd. La Honda - Glenwood Boy	COLIFORM	Routine	A	SM9223B-18	Keefe Brennan
9/18/2024	400 Ranch Rd. La Honda - Glenwood Boy	E. COLI	Routine	A	SM9223B-18	Keefe Brennan

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