

PROTECTING, MAINTAINING & IMPROVING THE HEALTH OF ALL MINNESOTANS

September 28, 2018

Hastings City Council c/o Ms. Melanie Mesko Lee, Clerk Hastings City Hall 101 East Fourth Street Hastings, MN 55033

Dear Council Members:

Subject: Level 2 Assessment Completed – E. coli MCL Exceedance, Hastings, Dakota County, PWSID 1190012

Enclosed is a summary of the results of the coliform bacteria analyses conducted on water samples collected from your public water system. On September 27, 2018 a Level 2 assessment was completed by a Minnesota Department of Health (MDH) representative in response to an E. coli Maximum Contaminant Level (MCL) Exceedance. The assessment included an evaluation of the source and treatment, the distribution system operation and maintenance, existing monitoring data, sampling protocol, and any recent atypical circumstances that may have impacted your water system. The assessment form is also enclosed.

The assessment identified no sanitary defects, and the cause is unknown. After disinfection and flushing of the distribution system, and after repeat sampling conducted on September 24, 2018, the water was found to be free of coliform bacteria. Your drinking water is in compliance with the Safe Drinking Water Act for coliform bacteria.

This letter should be placed in your records for not less than five (5) years.

If you have any questions concerning the information contained in this report, please contact Simon McCormack at 651-201-5180 or via email at simon.mccormack@state.mn.us.

Sincerely,

Karla R. Peterson, P.E., Supervisor

KART

Community Public Water Supply Unit Environmental Health Division

P.O. Box 64975

St. Paul, Minnesota 55164-0975

KRP:SCM Enclosures

cc: Water Superintendent

Bonnie Shafer, MDH Compliance Officer, St. Paul Office



Total Coliform Rule Level 2 Site Assessment Form

PWSID: 190012	PWS Name: Hastings	F	Population: 22,335
Source Type: EW	<u> </u>	City: Hastings	22100
Responsible Operator: Mark Peine		Phone:	
Bacteriological Sample Collector(s) (if not Responsible Operator):	Dave Dube	Phone:	
Date of Most Recent Absent Total Coliform Samples: $9-6-8$		Date Assessment Completed: 9-27-18	
		, - , , , ,	

		Issues	Issue Identified?	land Daniel II		
		10000	Y/N	lssue Description Sanitary Defect found? Yes □ No □	·····	tive Action
1	1. 1	Have any of the following occurred at relevant facilities prior to the collect		Samtary Defect found? Tes No	Action	Date
Г		Treatment process interruption				I
B	_	Pressure loss event (< 5 psi)	Ι ν			
C		Operation or maintenance activities may have introduced coliform bacteria	2			
K		Vandalism	1 1			
G	_	Unauthorized access	N 1			
R		Visibly unsanitary conditions	1 2			
Ü	1.	Fire fighting event	<u> </u>			
N	-	Distribution flushing event	1 7			
Di		Source sample(s) with positive analytical total coliform result(s)	+3-4			
li.	_	Community public health suspects waterborne illness				
2	2. \	Were any monitoring site issues observed?				
a		Tap condition issue				T
P	<u>.</u>	Tap location issue	1 2			
REC		Normal tap function may cause contamination	<u> </u>			
M	_	Plumbing changes	N . T			
		Plumbing breaks	1 2			
S	-	Cross connection identified	1 2			
E		Required backflow prevention device not present /operational / maintained	1 2			
S g		Low pressure event in plumbing	1 2			
i	-	POE / POU treatment device present	+ 7			
3		Was incorrect sampling protocol observed?	1 2 1			
a		Aerator not removed				
T		Gasket(s) not removed	1 7			
A	-	Tap not flushed	1 2			
P		Tap surfaces not disinfected	1 7			
e		Swivel tap	1 2			
	·]	Omisei tap	I N			

	Questions	Issue Identified?	Issue Description	Correcti	ve Action
		Y/N	Sanitary Defect found? Yes 🗆 No 🗅	Action	Date
D 4	. Was a Distribution issue observed?				
_l a	System pressure: low (< 5 psi) or negative	7	are tracked		
S b	Cross connection (high risk) identified	7	Jakkes are home		
Tc	Pump station sanitary defect	N .			
Rd	Air relief valve terminates lower than allowed	N			
Ве	Fire hydrant in high water table	N			
U f.	Unsecured water purchase location	N	SAIL NEW That are passing, byt possible Something happened when put into Service.		
Tg	. Watermain break	N	an any likes are passing, but pession		
0 h	. Watermain repair or installation	7	SAM Some Miny happened when put into		
N	Watermain flushing	7	Service.		
j.	Required backflow prevention device not present /operational / maintained	<u> N</u>	<i>y</i>		
5	. Was a Storage issue observed?				
а	Overflow and/or vent not properly screened	2	inher screen on 65% was damaged. All		
b	. Unsecured facility	N	When Buccus and vent sereens whach		
s	. Inproperly sealed access port (door / vent / joint)	N			
T	Poor tank condition	7			
0 6	. Vent not turned down or not maintaining approved air gap at termination	N.			
Rf	Insufficient drain/overflow termination air gap (< 12")	N			
A G	. Insufficient pressure tank minimum pressure	N			
E	. Inappropriate maintenance (painting / coating) schedule	2			
i.	Inappropriate inspection schedule	7			
<u>j.</u>	Observed leak(s)	7			
k		N			
1.	Chlorine residual not detectable in water exiting the storage tank	NIX			
E	. Was a Treatment issue observed?				
Т	Treatment device(s) not operational or not maintained	N			
R		7]		
E		7		1.	
T		2			
М		N/A			
Εf	Settled water turbidity anomaly	NIA			
N	Required C x T inactivation value not met	NA	7		
T F	Filter flow rate above approved capacity	7			
i	Chlorine residual not detectable in water entering the distribution system	NIA			

	Questions	Issue Identified?	Issue Description	Correct	ive Action
		Y/N	Sanitary Defect found? Yes □ No □	Action	Date
7.	. Was a Source issue observed?			<u>1</u> .	
a.	Inactive source introduced	N			
b.	New source introduced	N			
C.	Sanitary seal compromised	V			
d.	Unscreened vent				
e.	Insufficient air gap	V			
f.	Inadequate well casing termination height	À.			
g.	Insufficient security	T j			
h.	Standing water near well	N			
i.	Contaminant spill	N			
<u>j.</u>	Heavy rainfall	7			
k.	Flooding	7			
1.	Rapid snow melt	NIA	1 . A lasta . D. Muss		
m	Unprotected cross connection(s) at the wellhead	7	>12 PZ at one well buts of m testing in flore		
n.		N	>12 PZ at one well this up he testing in May. Used for outside spiget which also has a vacual lycaker. RPZ will be tested this week.		
0.	Source turnover (surface water)	NA	Grenker. El 2		
p.	Algal bloom (surface water)	NA			
8.	Were any potential contaminant sources discovered?				
	Potential contaminant source discovered	2			

Name of person completing form: Simin Milimark, P.E.	Comments: Unable to determine couse. Possible sources are:
Signature: Date: 9-27-18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
It is strongly recommended that the Hastings water system implement permanent/continuous chlorination. The system's size makes it voluciable to contamination in the distribution system. Most recommends maintaining a total chlorine residual of at Kust 0.5 ppm on all Parts it the distribution system.	system followed by blowing out the lines

Note: This form must be completed within 30 days of notification of TCR positive result, and a copy must be maintained in your records for five (5) years. Completed forms should be submitted by email to simon.mccormack@state.mn.us or by mail to:

Attn: Simon McCormack

Minnesota Department of Health Community Water Supply Unit P.O. Box 64975

St. Paul, MN 55164-0975.