



H-O-H Water Technology, Inc.

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ISO 9001:2008 Registered

October 7, 2014

Mr. Mike Lane
University of Michigan-Flint

U of M-Flint Domestic Water Logsheets

	Sample location	Door	H/C	Temp Deg F	Free Cl2	Total CL2	RLU Total ATP
	French Hall	5 th floor sink				0.10	7
	French Hall	5 th floor Bath			0.05	0.11	12
	North Bank	Bsmt. Break area fountain			0	0.05	12
	North Bank	Basement Bath Sink			0	0.07	33
	1 st Street Residence	124 Bathroom			0.92	0.72	3
	1 st Street Residence	Entryway fountain				0	2
7	North Bank	5 th floor fountain			0	0.07	9
8	North Bank	5 th floor bath			0	0.04	40
9	UPAV 2 nd floor	Drinking Fountain				0.18	12
	UPAV	2 nd floor bath			0.07	0.29	34

- RLU results were acceptable.
- ATP expressed in RLU utilizing a 3M Clean-trace system.

"Caretakers of the world's most precious resource"



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LABORATORY REPORT - WATER ANALYSIS

Customer No.: 1000747
Report No.: 42946
Report Date: 10/30/14
Login Date: 10/14/14
Sample Date: 10/7/14

Regarding: University of Michigan-Flint
Location: 602 Mill Street
Flint, MI

			First Street Residence Hall Domestic Water		North Bank Center Domestic Water							
			Soluble	Insoluble	Soluble	Insoluble						
W a t e r P r o p e r t y C a t i o n s A n i o n s	1.	Alkalinity ("P") as CaCO ₃	0		0							
	2.	Alkalinity ("M") as CaCO ₃	102		126							
	3.	Alkalinity ("OH") (calculated) as CaCO ₃										
	4.	Free Mineral Acidity as CaCO ₃										
	5.	Chemical Oxygen Demand (C.O.D.)										
	6.	Chloroform Extractables										
	7.	Dissolved Solids	297		308							
	8.	Hardness (Calcium) as CaCO ₃	105		119							
	9.	Hardness (Magnesium) as CaCO ₃	36		30							
	10.	Hardness (Total) as CaCO ₃	141		149							
	11.	pH	7.9		7.9							
	12.	Refractive Index										
	13.	Specific Conductance μmhos	414		430							
	14.	Specific Gravity g/ml										
	15.	Suspended Solids										
	16.	Total Inorganic Carbon			31.2		33.3					
	17.	Total Organic Carbon			4.9		5.0					
18.	Aluminum as Al	0.02		0.00								
19.	Barium as Ba	0.02		0.02								
20.	Calcium as Ca	41.8		47.6								
21.	Chromium as Cr	0.00		0.00								
22.	Copper as Cu	0.00		0.07								
23.	Iron as Fe	0.00		0.00								
24.	Lead as Pb	0.000		0.000								
25.	Lithium as Li	0.00		0.00								
26.	Magnesium as Mg	8.74		7.36								
27.	Manganese as Mn	0.00		0.00								
28.	Nickel as Ni	0.00		0.00								
29.	Potassium as K	3.11		3.07								
30.	Silver as Ag	0.00		0.00								
31.	Sodium as Na	18.4		18.0								
32.	Strontium as Sr	0.13		0.15								
33.	Zinc as Zn	0.01		0.03								
34.	Total Cation Millequivalents	3.692		3.651								
35.	Acetate as C ₂ H ₃ O ₂	0.00		0.00								
36.	Bromide as Br	0.02		0.00								
37.	Chloride as Cl	65.7		66.2								
38.	Chlorate as ClO ₃	0.00		0.00								
39.	Chromate as CrO ₄											
40.	Fluoride as F	0.73		0.69								
41.	Formate as CHO ₂	0.00		0.01								
42.	Glycolate as C ₂ H ₃ O ₃	0.00		0.00								
43.	Molybdate as MoO ₄	0.01		0.01								
44.	Nitrate as NO ₃	0.15		0.08								
45.	Nitrite as NO ₂	0.00		0.00								
46.	Oxalate as C ₂ O ₄	0.37		0.08								
47.	Phosphate (ortho) as PO ₄	0.23		0.00								
48.	Phosphorus (total) as P	0.08		0.02								
49.	Propionate as C ₃ H ₅ O ₂	0.00		0.00								
50.	Sulfamate as NH ₂ SO ₃	0.00		0.00								
51.	Sulfate as SO ₄	30.4		32.6								
52.	Sulfur (total) as S	10.6		10.9								
53.	Total Anion Millequivalents	4.694		5.236								
54.	Ammonia as NH ₃											
55.	Benztotriazole as C ₈ H ₈ N ₃											
56.	Boron as B	0.10		0.08								
57.	Silica as SiO ₂	3.52		3.87								
58.	Sodium Nitrite as NaNO ₂											
59.	Sodium Sulfite as Na ₂ SO ₃											
60.	Tolytriazole as C ₇ H ₈ N ₃											

ANALYSIS NV All data except pH in parts per million or as indicated

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