WATER TECHNOLOGY

DATE: August 12, 2021

TO: Tammy Phillips

FROM: Darius Barkauskas

SUBJECT: Davis-Houk Mechanical, Inc.
Mahomet-Seymour Community Unit School District 3
1301 S. Bulldog Drive
Mahomet, IL
Analysis of domestic water.

Dear Tammy:

Attached you will find our laboratory analysis reports pertaining to the above referenced sample(s), our laboratory number 55273.

I hope this information satisfies your requirements. If any further work or discussion is needed, please get back to me.

Very truly yours,

Darius Barkauskas

DKB
Enclosure

WATER TECHNOLOGY

500 South Vermont Street
Palatine, IL 60067
(800) 577-2211
Fax: (847) 358-7082

LABORATORY REPORT - WATER ANALYSIS

Regarding: Davis-Houk Mechanical, Inc.
Location: Mahomet-Seymour Community Unit School District 3
1301 S. Bulldog Drive
Mahomet, IL

Customer No.: 1005548
Report No.: 55273
Report Date: 8/12/21
Login Date: 8/6/21
Sample Date: 11/12/20

				Mahomet Junior High School Lead 1st Draw		Mahomet Junior High School Lead 2nd Draw		Mahomet Junior High School Drinking Fountain 1st Draw		Mahomet Junior High School Drinking Fountain 2nd Draw		Lincoln Trail Elementary School Sink 1st Draw	
				Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble
	1.	Alkalinity ("P")	as $CaCO_3$	68		52		74		60		70	
	2.	Alkalinity ("M")	as $CaCO_3$	360		342		358		346		356	
	3.	Alkalinity ("OH") (calculated)	as $CaCO_3$										
W	4.	Free Mineral Acidity	as $CaCO_3$										
a	5.	Chemical Oxygen Demand (C.O.D.)											
t	6.	Chloroform Extractables											
e	7.	Dissolved Solids		460		459		462		460		465	
r	8.	Hardness (Calcium)	as $CaCO_3$	60		61		56		59		56	
	9.	Hardness (Magnesium)	as $CaCO_3$	35		37		32		34		35	
P	10.	Hardness (Total)	as $CaCO_3$	95		98		89		93		91	
r	11.	pH		8.9		8.7		8.8		8.7		8.7	
	12.	Refractive Index											
o	13.	Specific Conductance	µmhos/cm	672		671		675		671		678	
p	14.	Specific Gravity	g/ml										
e	15.	Suspended Solids			1.5		1.5		2.5		1.5		5.5
	16.	Total Inorganic Carbon			87.2		78.7		81.8		83.3		89.2
	17.	Total Organic Carbon			2.7		1.0		0.5		0.1		1.7
r	18.	Aluminum	as Al	0.00		0.00		0.00		0.00		0.00	
t	19.	Barium	as Ba	0.03		0.02		0.02		0.02		0.02	
i	20.	Calcium	as Ca	24.0		24.4		22.5		23.5		22.4	
e	21.	Chromium	as Cr	0.00		0.00		0.00		0.00		0.00	
s	22.	Copper	as Cu	0.08		0.01		0.11		0.10		0.08	
	23.	Iron	as Fe	0.03		0.00		0.00		0.00		0.00	
	24.	Lead	as Pb	0.000		0.000		0.000		0.000		0.000	
	25.	Lithium	as Li	0.08		0.08		0.07		0.09		0.09	
	26.	Magnesium	as Mg	8.46		8.91		7.86		8.38		8.43	
	27.	Manganese	as Mn	0.01		0.00		0.01		0.00		0.00	
	28.	Nickel	as Ni	0.00		0.00		0.00		0.00		4.28	
	29.	Potassium	as K	1.73		1.95		1.18		1.26		1.17	
	30.	Silver	as Ag	0.00		0.00		0.00		0.00		0.00	
C	31.	Sodium	as Na	129		126		123		129		125	
a	32.	Strontium	as Sr	0.10		0.10		0.09		0.10		0.09	
t	33.	Zinc	as Zn	0.28		0.24		0.25		0.18		0.10	
i	34.	Total Cation Millequivalents		*7.229*		*7.492*		*7.182*		*7.513*		*7.529*	
o	35.	Acetate	as $C_2H_3O_2$	0.00		0.00		0.00		0.00		0.00	
n	36.	Bromide	as Br	0.00		0.00		0.00		0.00		0.00	
s	37.	Chloride	as Cl	4.00		4.20		4.09		3.89		3.98	
	38.	Chlorate	as ClO_3	0.00		0.00		0.00		0.00		0.00	
	39.	Chromate	as CrO_4										
	40.	Fluoride	as F	0.40		0.37		0.39		0.39		0.42	
	41.	Formate	as CHO_2	0.00		0.00		0.00		0.00		0.00	
	42.	Glycolate	as $C_2H_3O_3$	0.00		0.00		0.00		0.00		0.00	
	43.	Molybdate	as MoO_4	0.00		0.00		0.00		0.00		0.00	
	44.	Nitrate	as NO_3	3.76		3.26		3.39		3.38		2.51	
	45.	Nitrite	as NO_2	0.13		0.06		0.02		0.01		0.01	
	46.	Oxalate	as C_2O_4	0.00		0.00		0.00		0.00		0.00	
	47.	Phosphate (ortho)	as PO_4	1.60		0.97		0.67		0.86		0.49	
	48.	Phosphorus (total)	as P	0.79		0.66		0.62		0.94		0.55	
A	49.	Propionate	as $C_3H_5O_2$	0.00		0.00		0.00		0.00		0.00	
n	50.	Sulfamate	as NH_2SO_3	0.00		0.00		0.00		0.00		0.00	
i	51.	Sulfate	as SO_4	31.9		31.3		31.7		30.6		31.3	
o	52.	Sulfur (total)	as S	16.6		16.7		15.9		16.4		16.2	
n	53.	Total Anion Millequivalents		*8.709*		*8.355*		*8.653*		*8.421*		*8.601*	
s	54.	Ammonia	as NH_3										
	55.	Benzotriazole	as $C_6H_5N_3$										
	56.	Boron	as B	0.52		0.47		0.42		0.42		0.39	
	57.	Silica	as SiO_2	19.3		19.2		18.4		19.2		18.8	
	58.	Sodium Nitrite	as $NaNO_2$										
	59.	Sodium Sulfite	as Na_2SO_3										
	60.	Tolyltriazole	as $C_7H_7N_3$										

Analyst MV All data except pH in parts per million or as indicated

Continued on reverse side.

WATER TECHNOLOGY

LABORATORY REPORT - WATER ANALYSIS

500 South Vermont Street
Palatine, IL 60067
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Regarding: Davis-Houk Mechanical, Inc.
Location: Mahomet-Seymour Community Unit School District 3
1301 S. Bulldog Drive
Mahomet, IL

Customer No.: 1005548
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				Mahomet Junior High School Lead 1st Draw		Mahomet Junior High School Lead 2nd Draw		Mahomet Junior High School Drinking Fountain 1st Draw		Mahomet Junior High School Drinking Fountain 2nd Draw		Lincoln Trail Elementary School Sink 1st Draw	
				Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble
Compounds	61.	Bromate	as BrO_3										
	62.	Chlorite	as ClO_2										
	63.	Cyclohexylamine*	as $C_6H_{13}N$										
	64.	Diethylamine*	as $C_4H_{11}N$										
	65.	Diethylaminoethanol*	as $C_6H_{15}NO$										
	66.	Ethylamine*	as C_2H_7N										
	67.	Morpholine*	as C_4H_9NO										
	68.	Diethylene Glycol*	% by volume										
	69.	Ethylene Glycol*	% by volume										
	70.	Propylene Glycol*	% by volume										
	71.	Methanol*	% by volume										
Microbiological	72.	Heterotrophic Plate Count @ 22°C(Aerobic)	CFU/ml										
	73.	Heterotrophic Plate Count @ 37°C(Aerobic)	CFU/ml										
	74.	Heterotrophic Plate Count (Anaerobic)	CFU/ml										
	75.	Denitrifying Bacteria	CFU/ml										
	76.	Fecal Coliform	CFU/100 ml										
	77.	Iron Bacteria	CFU/ml										
	78.	Mold	CFU/ml										
	79.	Sulfate Reducers	CFU/ml										
	80.	Total Coliform	CFU/100 ml										
	81.	Yeast	CFU/ml										
	82.	E.Coli	CFU/100 ml										
	83.	Enterococci (Fecal Streptococci)	MPN/100 ml										
	84.	Pseudomonas Aeruginosa	MPN/100 ml										
	85.	Residue by Evaporation											
	86.	Volatile Solids											
	87.	System Capacity	gal.										
	88.	Turbidity	NTU										
	89.	P.T.S.A.	ppb										
	90.	Dissolved Oxygen	as O_2										
	91.	DEHA	ppb										
	92.	Erythorbic Acid	ppb										
	93.	Fluorescein	ppb										
	94.	Chlorine (free)	as Cl_2										

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*Analysis by Gas Chromatography.

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Mahomet, IL

Customer No.: 1005548
Report No.: 55273
Report Date: 8/12/21
Login Date: 8/6/21
Sample Date: 11/12/20

				Lincoln Trail Elementary School Sink 2nd Draw									
				Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble	Soluble	Insoluble
Water Properties	1.	Alkalinity ("P")	as $CaCO_3$	64									
	2.	Alkalinity ("M")	as $CaCO_3$	360									
	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		459									
	8.	Hardness (Calcium)	as $CaCO_3$	54									
	9.	Hardness (Magnesium)	as $CaCO_3$	34									
	10.	Hardness (Total)	as $CaCO_3$	88									
	11.	pH		8.7									
	12.	Refractive Index											
	13.	Specific Conductance	µmhos/cm	670									
	14.	Specific Gravity	g/ml										
	15.	Suspended Solids			1.5								
	16.	Total Inorganic Carbon			79.3								
	17.	Total Organic Carbon			2.3								
Cations	18.	Aluminum	as Al	0.00									
	19.	Barium	as Ba	0.02									
	20.	Calcium	as Ca	21.6									
	21.	Chromium	as Cr	0.00									
	22.	Copper	as Cu	0.03									
	23.	Iron	as Fe	0.00									
	24.	Lead	as Pb	0.000									
	25.	Lithium	as Li	0.11									
	26.	Magnesium	as Mg	8.16									
	27.	Manganese	as Mn	0.00									
	28.	Nickel	as Ni	0.01									
	29.	Potassium	as K	1.11									
	30.	Silver	as Ag	0.00									
	31.	Sodium	as Na	123									
	32.	Strontium	as Sr	0.09									
	33.	Zinc	as Zn	0.21									
	34.	Total Cation Millequivalents		*6.822*									
Anions	35.	Acetate	as $C_2H_3O_2$	0.00									
	36.	Bromide	as Br	0.00									
	37.	Chloride	as Cl	3.82									
	38.	Chlorate	as ClO_3	0.00									
	39.	Chromate	as CrO_4										
	40.	Fluoride	as F	0.40									
	41.	Formate	as CHO_2	0.00									
	42.	Glycolate	as $C_2H_3O_3$	0.00									
	43.	Molybdate	as MoO_4	0.00									
	44.	Nitrate	as NO_3	3.27									
	45.	Nitrite	as NO_2	0.05									
	46.	Oxalate	as C_2O_4	0.00									
	47.	Phosphate (ortho)	as PO_4	1.01									
	48.	Phosphorus (total)	as P	0.83									
	49.	Propionate	as $C_3H_5O_2$	0.00									
	50.	Sulfamate	as NH_2SO_3	0.00									
	51.	Sulfate	as SO_4	30.7									
	52.	Sulfur (total)	as S	15.7									
	53.	Total Anion Millequivalents		*8.643*									
	54.	Ammonia	as NH_3										
	55.	Benzotriazole	as $C_6H_5N_3$										
	56.	Boron	as B	0.38									
	57.	Silica	as SiO_2	18.5									
	58.	Sodium Nitrite	as $NaNO_2$										
	59.	Sodium Sulfite	as Na_2SO_3										
	60.	Tolyltriazole	as $C_7H_7N_3$										

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All data except pH in parts per million or as indicated

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	66.	Ethylamine*	as C_2H_7N										
	67.	Morpholine*	as C_4H_9NO										
	68.	Diethylene Glycol*	% by volume										
	69.	Ethylene Glycol*	% by volume										
	70.	Propylene Glycol*	% by volume										
	71.	Methanol*	% by volume										
Microbiological	72.	Heterotrophic Plate Count @ 22°C(Aerobic)	CFU/ml										
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	80.	Total Coliform	CFU/100 ml										
	81.	Yeast	CFU/ml										
	82.	E.Coli	CFU/100 ml										
	83.	Enterococci (Fecal Streptococci)	MPN/100 ml										
	84.	Pseudomonas Aeruginosa	MPN/100 ml										
	85.	Residue by Evaporation											
	86.	Volatile Solids											
	87.	System Capacity	gal.										
	88.	Turbidity	NTU										
	89.	P.T.S.A.	ppb										
	90.	Dissolved Oxygen	as O_2										
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