



healthAIR - Industrial Hygiene Services cleanWATER - Consulting & Testing Services safeEARTH - Hazardous Waste & Recycling Services

March 17, 2016

Mr. Janes Graham Assistant Superintendent of Business & Finance South Lyon Community Schools 345 South Warren South Lyon, Michigan 48178 grahamj@slcs.us

RE: AEG Project # AE160172

Drinking Water Sampling Twelve (12) District Buildings

Dear Mr. Graham:

Pursuant to the request of South Lyon Community Schools, Arch Environmental Group, Inc. collected representative first draw drinking water lead samples and representative service connection lead samples on March 5, 2016, at Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Dolsen Elementary School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, Sayer Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East. Additionally, follow-up samples were collected at Dolsen Elementary School and Sayer Elementary School on March 12, 2016. The results of the sampling are detailed in the attached report.

If you have any questions regarding the report, please feel free to contact Jenna Sendra at (248) 426-0165 [office] or (734) 239-1424 [mobile].

Sincerely,

Arch Environmental Group, Inc. Environmental Services

Jenna Sendra

Manager, cleanWATER

D5 Waterworks System Operator 16544

Attach.

File: AE160172

**Drinking Water Sampling** 



# DRINKING WATER SAMPLING REPORT

Prepared For:

#### **South Lyon Community Schools**

345 South Warren South Lyon, Michigan 48178

Prepared By:

#### Arch Environmental Group, Inc.

37720 Interchange Drive Farmington Hills, Michigan 48335

Project #: AE160172

Project Date(s): March 5, 2016 & March 12, 2016

Report Date: March 17, 2016

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#### 1.0 / Introduction

Pursuant to the request of South Lyon Community Schools, Arch Environmental Group, Inc. (AEG) collected forty-eight (48) first draw drinking water samples and representative service connection<sup>1</sup> samples throughout Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Dolsen Elementary School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, Sayre Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East on March 5, 2016. Additionally, AEG collected two (2) flush samples on March 12, 2016, at Dolsen Elementary School and Sayre Elementary School. All drinking water samples collected by AEG as part of a lead in drinking water testing program are were collected and interpreted with the Environmental Protection Agencies (EPA) guidance manual "3Ts for Reducing Lead in Drinking Water in Schools Revised Technical Guidance, October 2006"; not to be confused with the protocol employed by public water suppliers. All samples were delivered to Certified Laboratory, Brighton Analytical, L.L.C., for analysis. 20

#### 1.1 / Qualifications

Arch Environmental Group, Inc. is a full spectrum environmental services firm specializing in environmental health and safety consulting. Ms. Lauren Koloski and Mr. Kalan Briggs collected the first draw and flush drinking water samples under the direct supervision of Ms. Christine Caddick, who is accredited by the Michigan Department of Environmental Quality as a Certified Waterworks System Operator, Classification D-5, Operator Number 18412.

#### 2.0 / Contaminant Information

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

#### Lead

Lead enters into drinking water in two ways:

#### 1. At the Source

Most sources of drinking water have no lead or very low levels of lead (i.e., under 5 ug/L). However, lead is a naturally occurring metal and in some instances can get into well water. Lead can enter surface waters (waters from rivers, lakes, or streams) through direct or indirect discharges from industrial or municipal wastewater treatment plants or when lead in air settles into water or onto city streets and eventually, via rain water, flows into storm sewers, or waterways, which may enter the water supply. Lead from these sources can be easily removed by existing treatment plant technologies.

#### 2. Through Corrosion

Most lead gets into drinking water after the water leaves the local well or treatment plant and comes into contact with plumbing materials containing lead. These include lead pipe and lead solder (commonly used until 1986) as well as faucets, valves, and other components made of brass. The physical/chemical interaction that occurs between the water and plumbing is referred to as corrosion. The extent to which corrosion occurs contributes to the amount of lead that can be released into the drinking water.

Even though your public water supplier may deliver water that meets all federal and state public health standards for lead, you may end up with too much lead in your drinking water because of the plumbing in your facility. The potential for lead to leach into water can increase the longer the water remains in contact with lead in plumbing. As a result, areas with intermittent water use patterns, may have elevated lead concentrations. Additionally, some lead may get into the water from the distribution system – the network of pipes that carry the water to homes, businesses, and schools in the community. Some communities have lead components in their distribution systems, such as lead joints in cast iron mains, service connections, pigtails, and goosenecks.

Page 1



<sup>&</sup>lt;sup>1</sup> The pipe that carries tap water from the public water main to a building. In the past, these were often comprised of lead materials.

#### Public Water Supply Testing vs. Testing at Schools

Lead is regulated in public drinking water supplies under a federal law known as the Safe Drinking Water Act (SDWA). The requirements developed by EPA apply to public water systems. Schools that are served by a public water system (i.e., a drinking water system that they do not own or operate) are not subject to the SDWA monitoring and treatment requirements, because those schools do not meet the definition of a public water system.<sup>2</sup> It is important to note that the lead testing protocol utilized by public water systems is aimed at identifying system-wide problems rather than problems at outlets in individual buildings.<sup>3</sup> Additionally, the Lead and Copper Rule (LCR) established and action level (AL) of 15 ug/L for lead. The action level exceedance is not a violation but triggers other actions to minimize exposure to lead.<sup>4</sup>

#### 3.0 / Sampling

All sampling was conducted referencing EPA's guidance manual "3Ts for Reducing Lead in Drinking Water in Schools Revised Technical Guidance, October 2006"; not to be confused with the protocol employed by public water suppliers.

The representative first draw drinking water samples and representative service connection samples collected throughout Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East on March 5, 2016 identified lead levels below the 15 ug/L action level. Specific sample information is located in Appendix A.

However, two (2) of the samples collected on March 5, 2016 from Dolsen Elementary School and Sayre Elementary School identified lead levels above the 15 ug/L action level. The sample collected from the Kitchen single compartment prep sink at Dolsen Elementary School reported a lead level of 57 ug/L. Additionally, the sample collected from the Kitchen single compartment prep sink at Sayre Elementary School reported a lead level of 36 ug/L.

Following the identification of the elevated lead at Dolsen Elementary School on March 5, 2016 from the Kitchen single compartment prep sink, one (1) follow-up flush sample was collected from the same location on March 12, 2016. Follow-up flush samples are recommended by the EPA to determine how lead is entering the location and determine appropriate corrective actions if needed. The Kitchen single compartment prep sink flush sample reported a lead level of 6 ug/L, below the 15 ug/L action level. Specific sample information is located in Appendix A.

Finally, following the identification of the elevated lead at Sayre Elementary School on March 5, 2016 from the Kitchen single compartment prep sink, one (1) follow-up flush sample was collected from the same location on March 12, 2016. Follow-up flush samples are recommended by the EPA to determine how lead is entering at the location and determine appropriate corrective actions if needed. The Kitchen single compartment prep sink flush sample reported a lead level of 3 ug/L, below the 15 ug/L action level. Specific sample information is located in Appendix A.

#### 4.0 / Conclusion

AEG collected forty-eight (48) representative first draw drinking water samples and representative service connection samples throughout the Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Dolsen Elementary School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, Sayre Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East on March 5, 2016.



<sup>&</sup>lt;sup>2</sup> United States Environmental Protection Agency's manual "3T's for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance, October 2006", pg. 12.

<sup>&</sup>lt;sup>3</sup> United States Environmental Protection Agency's manual "3T's for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance, October 2006", pg. 28.

<sup>&</sup>lt;sup>4</sup> https://www.michigan.gov/deq/0,4561,7-135-3313\_3675\_3691-9677--,00.html

The sample results at Bartlett Elementary School, Brummer Elementary School, Centennial Middle School, Hardy Elementary School, Kent Lake Elementary School, Millennium Middle School, Salem Elementary School, South Lyon Early Childhood Center, South Lyon High School, and South Lyon High School East, identified lead levels below the 15 ug/L action level.

However, the sample collected from the Kitchen single compartment prep sink at Dolsen Elementary School on March 5, 2016, reported a lead level of 57 ug/L, above the 15 ug/L action level. Following the initial sample results, a follow-up flush sample was collected from the same location on March 12, 2016. The sample results from the flush sample reported a lead level of 6 ug/L, below the 15 ug/L action level. Flush sample results reported close to 5 ug/L or lower, indicate that the majority of the lead initially identified in the water is from the faucet.

Furthermore, the sample collected from the Kitchen single compartment prep sink at Sayre Elementary School on March 5, 2016, reported a lead level of 30 ug/L, above the 15 ug/L action level. Following the initial sample results, a follow-up flush sample was collected from the same location on March 12, 2016. The sample results from the flush sample reported a lead level of 3 ug/L, below the 15 ug/L action level. Flush sample results reported close to 5 ug/L or lower, indicate that the majority of the lead initially identified in the water is from the faucet.

It is the opinion of Arch Environmental Group, Inc. that South Lyon Community Schools conduct the following:

#### Interim Measures:

1. Remove the sink from service.

#### Permanent:

- 2. Replace the faucet/tap.
- 3. Once the faucet/tap is replaced, conduct a follow-up first draw sample.

Of the forty-eight (48) water samples that were tested throughout the district, only two (2) showed lead levels above the 15 ug/L mark. In other words, 95% of the water outlets tested did not have any lead problems.

#### Below are routine activities identified by the EPA that may be conducted to prevent elevated lead levels:

- 1. Use only cold water for food and beverage preparation. Hot water will dissolve lead more quickly than cold water and is likely to contain increased lead levels.
- 2. Instruct the users (students and staff) to run the water before drinking or staff could run the water before students arrive, so they are drinking water that has not been in contact with the faucet interior since faucets are often a major source of lead in drinking water.
- 3. Shut off outlets not is use.
- 4. Drinking fountains with reduced or low flow should be removed from service until repaired.



# **APPENDIX A**Results Table





#### South Lyon Community Schools Drinking Water Lead Analysis Project Number: AE160172

Bartlett Elementary School Date of Sampling: March 5, 2016 Sampler: Kalan Briggs Time **EPA Level** Results Type<sup>1</sup> Sample # Location **Notes** Collected ug/L<sup>2</sup> (ug/L) **\***S Bart ES - 01 Kitchen 1 Compartment Prep Sink 8:00 AM First Draw 15 Bart ES - 02 Fountain near Door #11 2 8:05 AM 15 First Draw D Bart ES - 03 Boiler Room Slop Sink SS 8:10 AM 15 ND **Service Connection** 

Brummer Elementary School								
Date of Sampling: March 5, 2016								
Sampler: Kalan Briggs								
Sample #	Location	Tuno <sup>1</sup>	Time	EPA Level	Results	Notes		
Sample #		Type <sup>1</sup>	Collected	ug/L <sup>2</sup>	(ug/L)			
Brum ES - 01	Kitchen 1 Compartment Sink	*S	8:00 AM	15	2	First Draw		
Brum ES - 02	Room #B5 Fountain	SD	8:05 AM	15	7	First Draw		
Brum US - 03	Kitchen Custodial Closet Slop Sink	SS	8:10 AM	15	ND	Service Connection		

Centennial Middle S	Centennial Middle School								
Date of Sampling: March 5, 2016									
Sampler: Kalan Briggs									
Cample #	Location	Leasting Time EPA Level Results	Notes						
Sample #	Location	Type <sup>1</sup>	Collected	ug/L²	(ug/L)	Notes			
Cent MS - 01	Kitchen 2 Compartment Sink	*S	8:37 AM	15	1	First Draw			
	Left Fountain next to Room #506								
Cent MS - 02	Storage	С	8:40 AM	15	ND	First Draw			
	Northwest 6th Grade Wing left								
Cent MS - 03	Fountain	С	8:43 AM	15	1	First Draw			
Cent MS - 04	Fountain outside Room #230	С	8:46 AM	15	2	First Draw			
Cent MS - 05	Boiler Room Spigot off Main	SC	8:50 AM	15	1	Service Connection			

Dolsen Elementary School								
Date of Sampling: March 5, 2016								
Sampler: Kalan Briggs								
Cample #	Location	Type <sup>1</sup>	Time	EPA Level	Results	Natas		
Sample #			Collected	ug/L <sup>2</sup>	(ug/L)	Notes		
Dolsen ES - 01	Kitchen 1 Compartment Prep Sink	*S	11:10 AM	15	57	First Draw		
Dolsen ES - 02	Room #B7	SD	11:15 AM	15	4	First Draw		
Dolsen ES - 03	Spigot off Main	SC	11:20 AM	15	4	Service Connection		

Dolsen Elementary School							
Date of Sampling: March 12, 2016							
Sampler: Lauren Koloski							
Sample #	Location	Туре	Time	EPA Level	Results	Notes	
Sample #		Туре	Collected	ug/L	(ug/L)		
Dolsen ES - 04	Kitchen 1 Compartment Prep Sink	*S	9:58 AM	15	6	Flush Follow-Up Sample	

<sup>1)</sup> Type: S = Sink, \*S = Sink Used for Drinking, C = Cooler, D = Drinking Fountain, SD = Sink/ Drinking Fountain combo, SS = Slop Sink, SC = Service Connection: EPA manual "3T's for Reducing Lead in Drinking Water in Schools"



## South Lyon Community Schools Drinking Water Lead Analysis Project Number: AE160172

Hardy Elementary School								
Date of Sampling: March 5, 2016								
Sampler: Kalan Briggs								
Cample #	Location	Tuno1	Time	EPA Level	Results	Notes		
Sample #		Type <sup>1</sup>	Collected	ug/L²	(ug/L)			
Hardy ES - 01	Fountain in Classroom #G8	SD	7:42 AM	15	7	First Draw		
Hardy ES - 02	Kitchen 1 Compartment Prep Sink	*S	7:47 AM	15	9	First Draw		
Hardy ES - 03	Boiler Room Spigot off Main	SC	7:51 AM	15	1	Service Connection		

Kent Lake Elementar	Kent Lake Elementary School							
Date of Sampling: March 5, 2016								
Sampler: Kalan Briggs								
Cample #	Location	Type <sup>1</sup>	Time	EPA Level	Results	Notes		
Sample #	Location	туре	Collected	ug/L <sup>2</sup>	(ug/L)			
Kent ES - 01	Room #A107 Fountain	SD	10:50 AM	15	ND	First Draw		
	Custodial Closet near Boiler Room							
Kent ES - 02	Slop Sink	SS	10:53 AM	15	1	Service Connection		
Kent ES - 03	Kitchen 1 Compartment Prep Sink	<b>*</b> S	10:57 AM	15	8	First Draw		

Millennium Middle School								
Date of Sampling: March 5, 2016								
Sampler: Kalan Briggs								
Sample # Location	Tuno1	Time	EPA Level	Results	Notes			
Sample #	Location	Type <sup>1</sup>	Collected	ug/L²	(ug/L)	Notes		
Mill MS - 01	Kitchen 1 Compartment Sink	*S	9:03 AM	15	2	First Draw		
Mill MS - 02	Fountain near Room #618	С	9:04 AM	15	2	First Draw		
Mill MS - 03	Fountain near Door #2	С	9:11 AM	15	ND	First Draw		
Mill MS - 04	Fountain next to Room #218	С	9:14 AM	15	ND	First Draw		
Mill MS - 05	Staff Bathroom in Kitchen	S	9:17 AM	15	ND	Service Connection		

Salem Elementary School								
Date of Sampling: March 5, 2016								
Sampler: Kalan Briggs								
Sample #	Location	Tupo1	Time	EPA Level	Results	Notes		
Sample #		Type <sup>1</sup>	Collected	ug/L <sup>2</sup>	(ug/L)			
Salem ES - 01	Kitchen 1 Compartment Prep Sink	<b>*</b> S	11:51 AM	15	ND	First Draw		
Salem ES - 02	Room #C7 Fountain	SD	11:56 AM	15	2	First Draw		
	Custodial Closet Slop Sink next to							
Salem ES - 03	Boiler Room	SS	12:05 AM	15	1	Service Connection		

Sayre Elementary School								
Date of Sampling: March 5, 2016								
Sampler: Kalan Briggs								
Sample #	Location	Type <sup>1</sup>	Time	EPA Level	Results	Notes		
·			Collected	ug/L²	(ug/L)			
Sayer ES - 01	Kitchen 1 Compartment Prep Sink	<b>*</b> S	9:32 AM	15	36	First Draw		
Sayer ES - 02	Room #K2 Fountain	SD	9:33 AM	15	ND	First Draw		
Sayer ES - 03	Staff Bathroom Sink by Receiving	S	9:39 AM	15	ND	Service Connection		



## South Lyon Community Schools Drinking Water Lead Analysis Project Number: AE160172

Sayre Elementary School								
Date of Sampling: March 12, 2016								
Sampler: Lauren Koloski								
Sample #	Location	Typo	Time	EPA Level	Results	Notes		
Sample #	Location	Type	Collected	ug/L	(ug/L)	Notes		
	Kitchen 1 Compartment Prep Sink,							
Sayer ES - 04	next to handwash sink	<b>*</b> S	10:30 AM	15	3	Flush Follow-Up Sample		

South Lyon Early Childhood Center								
Date of Sampling: March 5, 2016								
Sampler: Kalan Brigg	Sampler: Kalan Briggs							
Sample #	Location	Typo <sup>1</sup>	Time	EPA Level	Results	Notes		
Sample #		Type <sup>1</sup>	Collected	ug/L²	(ug/L)			
SLECC - 01	Kitchen 2 Compartment Sink	*S	9:49 AM	15	ND	First Draw		
SLECC - 02	Staff Bathroom near Water Main	S	9:57 AM	15	4	Service Connection		
SLECC - 03	Room #1 Fountain	SD	9:53 AM	15	ND	First Draw		

South Lyon High Sch	South Lyon High School								
Date of Sampling: March 5, 2016									
Sampler: Kalan Brigg	Sampler: Kalan Briggs								
Sample #	Location	Type <sup>1</sup>	Time	EPA Level	Results	Notes			
Sample #	Location	туре	Collected	ug/L²	(ug/L)	Notes			
Souly HS - 01	Fountain next to Room #6281	С	6:57 AM	15	ND	First Draw			
Souly HS - 02	North Bathroom Sink in Receiving	S	7:20 AM	15	ND	Service Connection			
Souly HS - 03	Fountain next to Room #A200	С	7:06 AM	15	ND	First Draw			
Souly HS - 04	Fountain next to Room #A109	С	7:08 AM	15	ND	First Draw			
Souly HS - 05	Fountain neat west entrance to Pool	D	7:11 AM	15	ND	First Draw			
Souly HS - 06	Fountain in southeast corner of Gym	D	7:14 AM	15	ND	First Draw			
Souly HS - 07	South Kitchen 2 Compartment Sink	<b>*</b> S	7:16 AM	15	ND	First Draw			

South Lyon High Sch	nool East					
Date of Sampling: N	March 5, 2016					
Sampler: Kalan Brig	gs					
Compule #	Location	T o 1	Time	EPA Level	Results	Notes
Sample #	Location	Type <sup>1</sup>	Collected	ug/L²	(ug/L)	Notes
SLHS East - 01	Boiler Room Slop Sink	SS	6:31 AM	15	2	Service Connection
SLHS East - 02	North 1 Compartment Prep Sink	<b>*</b> S	6:06 AM	15	7	First Draw
SLHS East - 03	West Gym Wall Fountain	D	6:09 AM	15	1	First Draw
SLHS East - 04	Room #2602 Fountain	D	6:14 AM	15	3	First Draw
SLHS East - 05	Left Fountain near Door #8	С	6:17 AM	15	2	First Draw
SLHS East - 06	Left Fountain near Room #2401	С	6:22 AM	15	ND	First Draw
	Left Fountain to the right of Room					
SLHS East - 07	#2201	С	6:25 AM	15	ND	First Draw

# APPENDIX B

Analytical Results & Chain of Custody



2105 Pless Drive · Brighton, Michigan 48114 · Phone (810) 229-7575 · Fax (810) 229-8650 · E-mail bai-brighton@sbcglobal.net

March 11, 2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

Subject:

South Lyon Community Schools

AE160172

Dear Ms. Caddick:

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 03/07/2016 for the above mentioned project. NELAP/TNI Accredited Analysis and MDEQ Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 37935 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely, Brighton Analytical, L.L.C.







COMPANYMAITING ADDRESS.	ARCH GNUIRONMENTAL GROUP 37720 INTERCHANGE NR	Luces M			Samples received within hold time? yes a no	Temperature of samples °C:	pHs verified in login? yes no Headsnare/hubbles in VOA's? ves no no no	Sample containers and COC match? yes		BILLING ADDRESS (IF REQUIRED):					Drinking H <sub>2</sub> O:	Fax to LCHD? yes no	AMT.:	MCL Failure: yes to no 1/1/2	CEE	"hold" on all analyses.	RECEIVED BY: DATE: TIME:		
Analysis Requested/Method				7 C O 1	Annu	? >	7011	1095	4 Sec 201	×	78	ο <sub>δ</sub>		45	672	×	54	3,6			RELINQUISHED BY:		
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Brighton Analytical, L.L.C.	Drive Phone: 810-229-7575 VI 48114 Fax: 810-229-8650	SOUTH SCHOOLS		(T BILLING ADDRESS)	Container	If RUSH,	APRESER	Date Time	10 REGEN 6281 3/5/16 657 X	SIMK IN RECEIVING 720 X	200 706 ×	7 08 7 ×	The Guttard 711 X	FOLUTAIN Y	Y 216 SINK 716	P SINK 631 X	HELPRESIUK 666 Y	GYM WALL FOUNDED V 609 X		Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a	Y: RECEIVED BY:		
Bright	2105 Pless Drive Brighton, MI 48114	PROJECT NAME:	AE 160	PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)	Sample collected by:	D TURNAROUNI	1 Day = 2.5X Cost 2 Day = 2X Cost 3 Day = 1.5X Cost Standard Standard Susiness days	Brighton ID # Sample Description	SOUTHS - 01 FOUNTAIN MENT TO BOOM 6281	SOULYHS-02 BATHEOOM SINK	OULYHS-03 FOUNTAL WEST TO REOM A200	OUCYMS - OF FOUNTAIN DEAT TO	DUCY HS - DS FONTAIN MEAR WEST POOL GUTBUCE	SOWYHS-64 SE GYM FOO	-07 S KITCHEN	8) SLHS BOILER BOOM SLEP SINK	EAST-02 N 1-COMP KIRHELPREDSINK	EAST-03 WEST GYM WE	Special Instructions:	Please J	frans.   RELINQUISHED BY:	- HOLEN	7

COMPANY/MAILING ADDRESS: BILLING ADDRESS (IF REQUIRED) Drinking H<sub>2</sub>0: Headspace/bubbles in VOA's? yes □ Client Notified (date/time/initials): Sample containers and COC match? Samples received within hold time? Chlorinated Water Supply? Fax to LCHD? yes □ yes Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses. remperature of samples pHs verified in login? FAX OR EMAIL MCL Failure: RECEIVED BY: PHONE ATTIN COUNECTION >> 10235 X Analysis Requested/Method 3 99 410 3 3 7047 S S 3 8 RELINQUISHED BY: P437 بحر × X × × × ン Trans. No. 3 Sample Matrix 3 DW = Drinking H20 BA PROJECT #: ABBREVIATIONS MEOH Preserved Y N 1.10 01.5 = Air (Tedlar Bag) TIME: FOR MATRIX L = Liquid Ouantity S = Solid P = Wipe F = Filter T = Tube M = Misc. SLEMINSED BYCLEMY 0 = 0il DATE: So TRESERVED? **YMBEK** Container Type HDPE NAOH HDPE H2SO4 2 X HDEE HOO? X × × X × X Phone: 810-229-7575 Brighton Analytical, L.L.C.TM Fax: 810-229-8650 HDFE UNPRESERVED RECEIVED BY: NOV.2 (BREZ) A. R. N/V 843 840 850 625 837 119 727 \$ Z 903 5 approved by Sample Coll. If RUSH, 3/8/16 Date PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS) 6) CENTRS-OR FOUNTAIN METTO SOG STREAM CENTAS-05 BOWER ROOM SPICETIOFFMAN WILLMS-01 KITCHEN I-COMP PREP SINK 1 Day = 2.5 X Cost 2 Day = 2 X Cost 3 Day = 1.5 X CostRush: 1-3 business days (verify with lab & specify date needed) LEST FOUNTAIN NEAR POOR 8 GAST-OL LOT FOUNTAIN BY GOOM 246 POSTAIN 4) EAST-07 KET FOLW TOIN BY BOOM 2201 CENTENS-03 NE G" GRADE FOUNTAIN Brighton, MI 48114 SENTINS-01 KITCHEN 2-COMP SINK SENTMS-04 FOUNTAM BY 200M 230 Sample Description 2105 Pless Drive REOUESTED TURNAROUND: (circle one) RELINQUISHED BY: AEIGONZ #2002# Special Instructions: ROOM Sample collected by: PROJECT NAME: Standard: 5 business 6455-04 PROJECT #: Brighton ID # EAS 5-05 3475 L 3) SLHS 2) SLM 5 Trans. 4

n/a

Ou

no 🗆

yes 🗆

no 🗆

yes  $\square$ 

OF.

01

yes 🗌

TIME:

DATE:

поп

yes D

no 🗆

B.	ighton And	Justine	I I	UL	TM	BA PI	ROJECT #:				n .	W. 41.		PAGE 3	3 OF S	
	Email: bai-brighton@sbcglobal.net	il: bai-brighton@sbcglobal.n	oal.net	7.0		w	37638			Ananysis	Analysis requested/internod	n/ivietnoc		COMPANY/M	COMPANY/MAILING ADDRESS:	ESS:
2105 Brigh	2105 Pless Drive Brighton, MI 48114	Pho Fax:	Phone: 810-229-7575 Fax: 810-229-8650	229-75	75	ABBRI FOR S	FOR MATRIX S = Solid L = Liquid	10			U.				1	
PROJECT NAME:						DW = 1	DW = Drinking H <sub>2</sub> 0 0 = Oil	0								
PROJECT #: AC 1 6017	7 - 1					A = Ai	P = Wipe = Air (Tedlar Bag) F = Filter						1	ATTN:		
PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)	FFERENT BILLING AD	ODRESS)				TM	T = Tube M = Misc.	sM s			4			FAX OR EMAIL:		
Sample collected by:				CO	Container Type	8	Quantity	oldm	4 - 111					Samples received within hold time?	hold time? yes	l no
REQUESTED TURNAROUND: (circle one)	0: (circle one)	If RUSH.	JSH.			AED3	AISE							Temperature of samples	Ç	
Rush: 1-3 business days (verify with lab & specify date needed) 1 Day = 2.5X Cost 2 Day = 2X Cost 3 Day = 1.5X Cost	ith lab & specify date needed)  Cost 3 Day = 15X Cost		approved by:	SEKAI		мегек	BYCLE SEZEKA	Y boy						pHs verified in login?	yes 🔲 no 🗎	
Standard: Dusiness days			Sample Coll.	1000000000		NAOH 4 A	CIZED		(JQ					Headspace/bubbles in VOA's?	A's? yes □ no □	] n/a
Brighton ID # Sam	Sample Description	Date	Time	***************************************	HDPE	HDPE AMBE	STERII		97	- 1 1 1 1				Sample containers and COC match?	C match? yes □	
MILLINS - 02 FOUNTAIN	BY ROOM 618	3/5/16	403		×			100	X		3	Ceotion				
FOUNTALN	NEAR DOOR #2		411		×			-	×			8		BILLING ADDRESS	ADDRESS (IF REQUIRED):	:
	FOUNTALM NEAR DOOR 218		414		×				×			5				
MILLINS-05 STAFF BATHEOOM IN KITCHEN	ATHEODA IN KITCHEN	3	417		×				_			5)	X			
BOLSES-OI KIRHEN 1	1-comp PREPSINK		1110		×				×			7				
80055-02 ROOM	#87 Fourtow		511)		×				×			12				
SP160T	OFF MAIN		0211		بر.				X			20	×		Drinking H <sub>2</sub> O:	
BARTES-() KITCHEN	KITCHEN I - COM PREPSINK		1001		火				×			さ		Fax to LCHD? yes □ n Chlorinated Water Supply?	o 🗆	
BARTES-OL FOUNTAIN NEAR DOIC# !!	WEAR DOOR # 1)		0001		بر				X			2			T:: T	]
BARTES-03 BOILER ROOM	DOM SCOPSINK	$\rightarrow$	1010		×			>	X			٤	×	MCL Failure: yes	<b></b> 0	
Special Instructions:	S:						3							Client Notified (date/time/initials):	me/initials):	
1	Please fill out the Chain of Custody completely	Chain of	Custody	compl		nd revie	w. <i>Іпсоп</i>	ect or	incon	plete in	formation w	ill result	in a "	and review. Incorrect or incomplete information will result in a "hold" on all analyses.		
Trans. RELINQUISHED BY:	HED BY:	RE	RECEIVED BY:	BY:	-	DATE:	TIME:	Trans.		RELIN	RELINQUISHED BY:	:2	****	RECEIVED BY:	DATE:	TIME:
MAS		3		d	4	77-1-	5	e 5								
2								7								

4

.

PAGE # 0F S	COMPANY/MAILING ADDRESS:		ATTN		FAX OR EMAIL:	Samples received within hold time? yes □ no □	Temperature of samples °C:	pHs verified in login? yes □ no □	Headspace/bubbles in VOA's? yes ☐ no ☐ n/a ☐	Sample containers and COC match? yes ☐ no ☐		BILLING ADDRESS (IF REQUIRED):					Drinking	Fax to LCHD? yes \( \text{no} \) no \( \text{Lorinated Water Supply? } \) yes \( \text{no} \) no \( \text{no} \)	T.:	MCL Failure: yes □ no □	Client Notified (date/time/initials):	"hold" on all analyses.	RECEIVED BY: DATE: TIME:		
				ſ	10140	חא€י	97	3))	1/23	)r		×				×			×				R		
Analysis Requested/Method	יוומול אוט דיניק שניטוב שוייל שניטונים	•							۵		Cootit	\ <u>\</u>	57	22	3	77	2	7,	X	3		and review. Incorrect or incomplete information will result in a	RELINQUISHED BY:		12
•					sM 9	-4	m.C.	4	137	5	×	×	*	X	×	×	У	>	У	X		r incom	DS.	e ,	4
BA PROJECT #:	57435	ABBREVIATIONS FOR MATRIX S = Solid L = Liquid	DW = Drinking H <sub>2</sub> 0 O = Oil	F = wipe  A = Air (Tedlar Bag)  F = Filter	opposite Control	Type & Quantity	AISI	RESERVAN	e, no pi	CLASS GLASS AMBE	2											nd review. Incorrect	DATE: TIME: #	31-	
MT ~	be H'so'				HDPE	×	×	×	X	*	х	*	<b>&gt;</b>	<b>y</b> _	×				50	77					
I	1.0	-229-7						N A (	_													ly com	BY:		
I lus	cut, L.	Phone: 810-229-7575 Fax: 810-229-8650					If DITCH	approved by:	Sample Coll.	e Time	0501 2	1053	1057	11511	1156	1205	432	935	934	745		of Custod	RECEIVED BY:	1	
Andlutical	AL VII	PF			DDRESS		-			Date	3/5/16		7	K		<			¥	$\rightarrow$		Chain		3	
Brighton Any	DIEGILOIL AMULYILLAI,	2105 Pless Drive Brighton, MI 48114	PROJECT NAME:	PROJECT #: AE160172	PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)	Sample collected by:	PEOUSCIECTED THENA POLIND: (virole one)	Rush: 1-3 business days (venify with lab & specify date needed)  1 Day = 2.5% Cost 2 Day = 2% Cost 3 Day = 1.5% Cost	Standard: 5 business day	Brighton ID # Sample Description	KENTES-01 ROBIN A107 FOUNTDIN	SLOP SINK BY	<u> </u>	SALEMES-01 KITCHEN 1-COMP PRESSINK	Sucmercial BOOM CT FOUNTAIN	SALEMES - 03 SLOP SINK BY BOILEC ROOM	SAYREES-1) KIRHEN 1-COMP PREPSIUK	Spriess-OLROSM K2 FOUNTAIN	STAFF BOTH COOM SINK SARCES-05 DY RECEIVING	HARDYES -OI BOOM G& FOUNTAIN	Special Instructions:	Please fill out the Chain of Custody completely	Trans.  RELINQUISHED BY:	1 MASS	2

		Brighton Analytical, L.L.C.	nalvtic	al.	LI	C	ILM	BAPR	BA PROJECT #:		An	alysis R	Analysis Requested/Method	po	PAGE 5	5 or 5	
		Email: bai	Email: bai-brighton@sbcglobal.net	lobal.net				70	505						COMPANYM	COMPANY/MAILING ADDRESS:	ESS:
		2105 Pless Drive Brighton, MI 48114		one: 8	Phone: 810-229-75 Fax: 810-229-8650	Phone: 810-229-7575 Fax: 810-229-8650	75	ABBRE FOR S = L =	ABBREVIATIONS FOR MATRIX S = Solid L = Liquid	<b>10</b>							
	PROJECT NAME:	AME:						DW = I	DW = Drinking H <sub>2</sub> 0 O = Oil	0,					A State of T		
	PROJECT #:	: ACIV 1122						P = Ain	P = Wipe Air (Tedlar Bag)	1000							
		100000							F = Filter	1e]					Z PHONE:		
	PO #: (PLEAS	PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)	3 ADDRESS)					M	I = I ube M = Misc.	M 9I	1			747	FAX OR EMAIL:		
	Sample collected by:	:ted by:				Con	Container		Quantity	dun				<i></i>	Samples received within hold time?	hold time? yes □	] no []
	REQUESTED	REQUESTED TURNAROUND: (circle one)	ı fi	If RUSH,		_		AEDS	AIA						Temperature of samples	.C:	
	Rush: 1-3 busin 1 Day = $2.5X$ C	Rush: 1-3 business days (verify with lab & specify date needed) 1 Day = 2.5X Cost 2 Day = 2X Cost 3 Day = 1.5X Cost	1995	approved by:	0. (Shi	EZEKAI R) A. M			RESERV	1 1001					pHs verified in login?	yes 🗆 no 🗀	
	Standard: (5 business days	isiness days	Sam	Sample Coll.				HOAN	PIZED	lacal I	Pt				Headspace/bubbles in VOA's?	OA's? yes □ no □	□ n/a □
	Brighton ID #	Sample Description	Date	Тіте	2015		HDPE		PLERI	NOW!	97		(	32)	Sample containers and COC match?	OC match? yes □	ou
	1) HARDYES -02	KITCHEN I-COMP PREPSINK	NK 3/5/16	747	Ī		X			3	人		71.7				
	2) HARDYES-03	SPIGOT OFF MAIN	_	751	-		×				×		2	×	BILLING	ADDRESS (IF REQUIRED):	);
-	3)26(6-61	KITCHEN 2-COMP SINK	¥	949	9		×	7			×		7.				
	SLECC-02 NEAR	STAFF BATHROOM NEAR WALL		457	12		×		-		X		30	×			
	5) SLECC - 03 ROOM	ROOM # 1 FOUNTAIN	2	953	2		×				X		3				
	Stumes-0)	BEUMES-01 KITCHEN 1-COMP SINK	_	1019	5		X				×		3.5				
8.	Baumes -62 ROOM	90	7	1025	25		×				X		3		Drin	Drinking H <sub>2</sub> O:	
100	8) Bomes -03	KITCHEN CUSTODIAL CLOSET SLOP SINK		0 -	1035		×				×		7.5	×	Fax to LCHD? yes □ n Chlorinated Water Supply?	o Syk	no
	(6																
	10)		$\rightarrow$							>					MCL Failure: yes□	D on	
	Special I	Special Instructions:					-	M	-						Client Notified (date/time/initials):	time/initials):	
		Please fill out the Chain of Custody completely	te Chain o	f Cus	tody c	ndmo		and review.		ect or	incompl	ete infor	Incorrect or incomplete information will result in	a	"hold" on all analyses		
	Trans.	RELINQUISHED BY:	RI	ECEN	RECEIVED BY	Y:		DATE:	TIME:	Trans.		ELINQU	RELINQUISHED BY:		RECEIVED BY:	DATE:	TIME:
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2	7	N								4							



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 Report Date:

3/11/2016

06:57 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID

CC07087

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SOULYHS-01 Fountain Next to Rm G281

**Analyte Name** Result **RL** MCL Method Reference Analysis Time Analysis Date Units

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

00:17

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016

07:20 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

Report Date:

BA Project #

BA Sample ID

3/11/2016

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SOULYHS-02 Bathroom Sink Rec. SC

**Analyte Name** Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

37935

CC07088

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

00:22

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016

07:06 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

Report Date:

BA Project #

BA Sample ID

3/11/2016

Project Name: South Lyon Community Schools Project Number: AE160172

Sample ID: SOULYHS-03 Fountain next to Rm A200

RL Method Reference Analysis Time Analysis Date **Analyte Name** Result Units MCL

**Drinking Water Metal Analysis** 

37935

CC07089

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

00:27

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
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MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 07:08 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

Report Date:

3/11/2016

Project Name: South Lyon Community Schools

BA Project # **37935**BA Sample ID **CC07090** 

Project Number: AE160172

Sample ID: SOULYHS-04 Fountain next to Rm A109

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

1

EPA 200.8 rev5.4

00:31

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



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NELAC Accredited #176507

Sample Date/Time: 3/5/2016

Submit Date/Time: 3/7/2016

07:11 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

Report Date:

3/11/2016

\_\_\_\_\_

BA Project # 3

37935 CC07091 Project Number A F160172

Project Number: AE160172

Sample ID: SOULYHS-05 Fountain near W. PoolEnt

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

Drinking Water Metal Analysis

Total Lead (Drinking Water) Not detected ug/L 1 15 EPA 200.8 rev5.4 00:36 03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by Ulosol



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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016

07:14 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #
BA Sample ID

37935

3/933

CC07092

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SOULYHS-06 SE Gym Fountain

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

00:40

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



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Brighton, Michigan 48114
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e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 07:16 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07093

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SOULYHS-07 S. Kitchen 2-Comp Sink

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

00:58

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 06:31 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #
BA Sample ID

37935

CC07094

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLHS East-01 Boiler Rm Slop Sink SC

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200,8 rev5.4	01:03	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



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e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 Report Date: 3/11/2016 06:06 10:00

10,00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07095

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLHS East-02 N 1-Comp Kit. Prep Snk

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	7	ug/L	1	15	EPA 200.8 rev5.4	01:08	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



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Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 06:09 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07096

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLHS East-03 W. Gym Wall Fountain

Analyte Name	Result	Units	RL	MCL	Method Reference	<b>Analysis Time</b>	<b>Analysis Date</b>
Dululius Water Water Laurinia							
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	01:12	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by Alfred Date 3/11/12



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 Report Date: 3/11/2016 06:14 10:00

10.00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07097

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLHS East-04 Room #2602 Fountain

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
<b>Drinking Water Metal Analysis</b> Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	01:30	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



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Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 06:17 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07098

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLHS East-05 Left Ftn Near Door 8

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	01:35	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by\_\_\_\_\_



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 06:22 10:00

Report Date: 3/11/2016 Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07099 Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLHS East-06 Left Ftn by Room 2401

**Analyte Name** Result Units RL MCL Method Reference Analysis Time Analysis Date **Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

01:39

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 06:25 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project # BA Sample ID 37935

CC07100

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLHS East-07 Left Ftn by Room 2201

**Analyte Name** 

Result

Units

RL

MCL

Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

01:57

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 08:37 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

BA Sample ID

37935

CC07101

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: CENTMS-01 Kitchen 2-Comp Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	<b>Analysis Time</b>	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	02:02	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 08:40 10:00

Arch Environmental Group 37720 Interchange Dr.

Report Date:

3/11/2016

Farmington Hills, MI 48335

BA Project # 37

37935

Project Name: South Lyon Community Schools
Project Number: AE160172

BA Sample ID

CC07102

Sample ID: CENTMS-02 Ftn next to 506 Storage

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

02:06

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 08:43 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project # BA Sample ID 37935

CC07103

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: CENTMS-03 NE 6th Grade Fountain

**Analyte Name** Method Reference Analysis Time Analysis Date **Units RL** MCL Result **Drinking Water Metal Analysis** Total Lead (Drinking Water) 1 15 EPA 200.8 rev5.4 02:11 03/09/2016 ug/L

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016

08:46 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07104

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: CENTMS-04 Fountain by Room 230

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	02:15	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 Report Date: 3/11/2016 08:50 10:00

10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07105

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: CENTMS-05 Boiler Rm Spigot Main SC

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	<b>Analysis Date</b>
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	02:20	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 09:03 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #
BA Sample ID

37935

CC07106

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: MILLMS-01 Kitchen 1-Comp Prep Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Tim	ne Analysis Date
Drinking Water Metal Analysis Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	03:05	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 Report Date: 3/11/2016 09:04 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07107

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: MILLMS-02 Fountain by Room #618

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	03:10	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 Report Date:

09:11 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

03:14

03/09/2016

BA Project #

37935

BA Sample ID CC07108 Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: MILLMS-03 Fountain near Door #2

EPA 200.8 rev5.4

**Analyte Name** Result Units RL MCL Method Reference Analysis Time Analysis Date **Drinking Water Metal Analysis** Total Lead (Drinking Water) Not detected

1

15

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

ug/L

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 09:14 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #
BA Sample ID

37935

CC07109

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: MILLMS-04 Fountain near Room 218

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

03:19

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Date

03/11/12



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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 09:17 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #
BA Sample ID

37935

CC07110

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: MILLMS-05 Staff Bathroom Kitchen SC

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

03:23

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 11:10 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07111

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: DOLSES-01 Kitchen 1-Comp Prep Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Lead (Drinking Water)	57	ug/L	1	15	EPA 200.8 rev5.4	03:28	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 11:15 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07112

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: DOLSES-02 Room #87 Fountain

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	4	ug/L	1	15	EPA 200.8 rev5.4	03:32	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 11:20 10:00

Report Date: 3/11/2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07113

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: DOLSES-03 Spigot Off Main SC

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	4	ug/L	1	15	EPA 200.8 rev5.4	03:37	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 10:01 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #
BA Sample ID

37935

CC07114

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: BARTES-01 Kitchen 1-Comp Prep Sink

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

Drinking Water Metal Analysis

Total Lead (Drinking Water) 7 ug/L I 15 EPA 200.8 rev5.4 03:55 03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 10:06 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

Project Name: South Lyon Community Schools Project Number: AE160172

BA Sample ID CC07115

Sample ID: BARTES-02 Fountain near Door #11

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

Drinking Water Metal Analysis

Total Lead (Drinking Water) 2 ug/L 1 15 EPA 200.8 rev5.4 04:00 03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 10:10 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07116

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: BARTES-03 Boiler Room Slop Sink SC

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

04:18

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 10:50 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07117

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: KENTES-01 Room A107 Fountain

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

04:22

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016

37935

10:53 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

Report Date:

BA Project #

3/11/2016

Project Name: South Lyon Community Schools

BA Sample ID CC07118

Project Number: AE160172
Sample ID: KENTES-02 Cust. Closet SlopSnk BR SC

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

Drinking Water Metal Analysis

Total Lead (Drinking Water) 1 ug/L 1 15 EPA 200.8 rev5.4 04:27 03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 10:57 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07119

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: KENTES-03 Kitchen 1-Comp. Prep Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis T	ime Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	8	ug/L	1	15	EPA 200.8 rev5.4	04:31	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Report Date: 3/11/2016 Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07120 Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SALEMES-01 Kitchen 1-Comp Prep Sink

**Analyte Name** Result Units RL MCL Method Reference Analysis Time Analysis Date **Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

04:36

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 11:56

Report Date:

3/11/2016

10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

**BA Sample ID** 

CC07121

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SALEMES-02 Room C7 Fountain

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	04:54	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 12:05 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID

CC07122

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SALEMES-03Cust.ClosetSlopSnk BR SC

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	04:59	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016

09:3 10:0

Report Date:

3/11/2016

09:32 10:00

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID

CC07123

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SAYRES-01 Kitchen 1-Comp Prep Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Lead (Drinking Water)	36	ug/L	1	15	EPA 200.8 rev5.4	05:03	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 09:35 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

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BA Project #

37935

BA Sample ID CC07124

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SAYRES-02 Room K2 Fountain

Analyte Name	Result	Units	RL	MCL	<b>Method Reference</b>	<b>Analysis Time</b>	<b>Analysis Date</b>
Ninking Water Metal Analysis							

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

05:08

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 Report Date:

3/11/2016

09:39 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07125 Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SAYRES-03 Staff Bathroom Snk Rec.SC

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time Analysis Date
winking Water Metal Analysis						

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

05:12

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 07:42 10:00

Report Date: 3/11/2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07126

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: HARDYES-01 Room G8 Fountain

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	7	ug/L	1	15	EPA 200.8 rev5.4	05:17	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 07:47 10:00

Arch Environmental Group
37720 Interchange Dr.

Report Date:

3/11/2016

Farmington Hills, MI 48335

BA Project # 37

37935

BA Sample ID CC07127

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: HARDYES-02 Kitchen 1-Comp Prep Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
<b>Drinking Water Metal Analysis</b> Total Lead (Drinking Water)	9	ug/L	1	15	EPA 200.8 rev5.4	06:02	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 07:51 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07128

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: HARDYES-03 Spigot off Main SC

Analyte Name	Result	Units	RL	MCL	Method Reference	<b>Analysis Tim</b>	e Analysis Date
<b>Drinking Water Metal Analysis</b>							
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	06:06	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by\_



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 09:49 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID

CC07129

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLECC-01 Kitchen 2-Comp Sink

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

06:11

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 Report Date: 3/11/2016 09:57

10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

BA Sample ID

37935

CC07130

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLECC-02 Staff Bathrm Water Main SC

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	4	ug/L	1	15	EPA 200.8 rev5.4	06:15	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 Report Date:

3/11/2016

09:53 10:00

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07131 Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: SLECC-03 Room #1 Fountain

Analyte Name	Result	Units	RL	MCL	<b>Method Reference</b>	<b>Analysis Time</b>	<b>Analysis Date</b>
Drinking Water Metal Analysis							

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

06:20

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 10:19 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #
BA Sample ID

37935

CC07132

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: BRUMES-01 Kitchen 1-Comp Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	<b>Analysis Time</b>	<b>Analysis Date</b>
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	06:24	03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by Missing Date 3/11/14



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 10:25 10:00

Report Date:

3/11/2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

06:29

03/09/2016

BA Project #

Total Lead (Drinking Water)

37935

BA Sample ID CC07133 Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: BRUMES-02 Room B5 Fountain

EPA 200.8 rev5.4

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time Analysis Date
Drinking Water Metal Analysis						

15

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

ug/L

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



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Sample Date/Time: 3/5/2016 Submit Date/Time: 3/7/2016 10:35 10:00

Report Date: 3/11/2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

37935

BA Sample ID CC07134

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: BRUMES-03 Kit.Cust.ClosetSlopSnk SC

Analyte Name Result Units RL MCL Method Reference Analysis Time Analysis Date

**Drinking Water Metal Analysis** 

Total Lead (Drinking Water)

Not detected

ug/L

15

EPA 200.8 rev5.4

06:34

03/09/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



# BRIGHTON ANALYTICAL, LLC

# QUALITY ASSURANCE/QUALITY CONTROL

### **ICP-MS METHOD 6020**

#### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date:	3/9/2016	Standard ID: 02	21616 H2O	Batch:	3/7/2016 W3
Matrix Spike Lab ID:	CC07096	Matrix:	Total	Analyst:	LT

	Matrix Spike - F	Precision *		Matrix Spike	e - Accurac	y**		Miscellaneo	us***	
Metals	Matrix Spike (ug/kg)	Matrix Spike Dup (ug/kg)	RPD (%)	Spk Conc (ug/kg)	MS Recovery (%)	MSD Recovery (%)		Method Blk (ug/kg)	LCS- Method STD (%)	Ind. Std. (%)
Lead	950	969	2.0	1000	94.9	96.8	1	<1	98.7	97.9

<sup>\*</sup> Matrix spike-precision range +/- 20% RPD

Comments:				

<sup>\*\*</sup> Matrix spike accuracy range +/- 20% recovery
\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

## **ICP-MS METHOD 6020**

#### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 3/9	9/2016	Standard ID: 021616 H2O	Batch: 3/	7/2016 W4
Matrix Spike Lab ID: CC	007115	Matrix: Total	Analyst:	LT

	Matrix Spike - F	recision *		Matrix Spike	- Accurac	y**		Miscellaneo	us***	
Metals	Matrix Spike (ug/kg)	Matrix Spike Dup (ug/kg)	RPD (%)	Spk Conc (ug/kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/kg)	Method Blk (ug/kg)	LCS- Method STD (%)	Ind. Std. (%)
Lead	1004	993	1.1	1000	100.2	99.1	2	<1	103.3	97.9

|--|

<sup>\*</sup> Matrix spike precision range +/- 20% RPD
\*\* Matrix spike accuracy range +/- 20% recovery

<sup>\*\*\*</sup> LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

# ICP-MS METHOD 200.8

#### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

 Analysis Date:
 3/9/2016
 Standard ID:
 021616 H20
 Batch:
 3/7/2016 W5

 Matrix Spike Lab ID:
 CC07139
 Matrix:
 Total
 Analyst:
 LT

	Matrix Spike	e - Precision	*	Matrix Spike	e - Accuracy	r vir		Miscellaneo	us***	
Metals	Matrix Spike (ug/L)	Matrix Spike Dup (ug/L)	RPD (%)	Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/L)	Method Blk (ug/L)	LCS- Method STD (%)	Ind. Std. SPEX 1&3 (%)
Potassium	31326	31981	2,1	10000	89.5	96.1	22376	<100	91.1	91.0
Nickel	974	978	0.4	1000	97.4	97.8	0	<10	99.8	103.4
Copper	1000	1011	1,1	1000	99.7	100.8	3	<4	101.5	104.5
Zinc	1030	1037	0.7	1000	98.6	99.3	44	<5	98.9	99.7
Arsenic	934	952	1.9	1000	93.4	95.2	0	<1	93.1	98.8
Selenium	962	979	1.8	1000	96.2	97.9	0	<5	95.7	98.9
Molybdenum	974	978	0.4	1000	97.0	97.4	4	<10	95.4	96.4
Cadmium	972	983	1.1	1000	97.2	98.3	0	<0.2	97.5	98.4
Lead	962	960	0.2	1000	96.2	96.0	0	<1	95.2	97.9

<sup>\*</sup> Matrix spike precision range +/- 20% RPD

Comments:

<sup>\*\*</sup> Matrix spike accuracy range +/- 20% recovery

<sup>\*\*\*</sup> LCS accuracy range +/- 20% recovery / Ind std accuracy range +/- 10% recovery



2105 Pless Drive · Brighton, Michigan 48114 · Phone (810) 229-7575 · Fax (810) 229-8650 · E-mail bai-brighton@sbcglobal.net

March 16, 2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

Subject:

South Lyon Community Schools

AE160172

Dear Ms. Caddick:

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 03/14/2016 for the above mentioned project. NELAP/TNI Accredited Analysis and MDEQ Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 38009 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely, Brighton Analytical, L.L.C.







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Samples received within hold time? yes no	Sampl		mp	Container Type & Quantity	Contain	Sample collected by:	Sample
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AIL.		Analysis Requested/Method	An	38089	n Analytical, L.L.C.	Brighton All	
PAGE OF							7



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 3/12/2016 09:58 Submit Date/Time: 3/14/2016 09:25 Report Date:

3/16/2016

Arch Environmental Group 37720 Interchange Dr. Farmington Hills, MI 48335

BA Project #

38009

Project Name: South Lyon Community Schools Project Number: AE160172

BA Sample ID

CC07298

Sample ID: Dolses-04 Kitchen 1-Comp Prep Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Lead (Drinking Water)	6	ug/L	1	15	EPA 200.8 rev5.4	12:57	03/15/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.



2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 3/12/2016 Submit Date/Time: 3/14/2016

3/16/2016

10:30 09:25

Arch Environmental Group 37720 Interchange Dr.

Farmington Hills, MI 48335

BA Project #
BA Sample ID

Report Date:

38009

CC07299

Project Name: South Lyon Community Schools

Project Number: AE160172

Sample ID: Sayres-04 Kitchen 1-Comp Prep Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
<b>Drinking Water Metal Analysis</b> Total Lead (Drinking Water)	3	ug/L	1	15	EPA 200.8 rev5.4	13:01	03/15/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by

Date 3/16/16



# BRIGHTON ANALYTICAL, LLC

# QUALITY ASSURANCE/QUALITY CONTROL

### **ICP-MS METHOD 200.8**

#### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 3/15/2016

Standard ID: 021616 H2O

Batch: 3/14/2016

Matrix Spike Lab ID: CC07295

Total Matrix:

Analyst: LT

	Matrix Spike	e - Precision	*	Matrix Spike	us***					
Metals	Matrix Spike (ug/L)	Matrix Spike Dup (ug/L)	RPD (%)	Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/L)	Method Blk (ug/L)	LCS- Method STD (%)	Ind. Std. SPEX 1&3 (%)
Magnesium	17177	17417	1.4	10000	100.5	102.9	7128	<100	95.1	90.5
Calcium	35454	35367	0,2	10000	93.1	92.2	26148	<100	98.9	92.3
Iron	10022	10046	0.2	10000	100.1	100.3	14	<10	98.8	92.8
Lead	1003	1000	0.3	1000	100.3	100.0	0	<1	102.3	98.5

<sup>\*</sup> Matrix spike precision range +/- 20% RPD

Comments:		

<sup>\*\*</sup> Matrix spike accuracy range +/- 20% recovery
\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery