

## BEDFORD CENTRAL SCHOOL DISTRICT FOX LANE CAMPUS P.O. BOX 180 MOUNT KISCO, NY 10549

### LEAD WATER TESTING

For

### Hillside School 2 Green Street Mount Kisco, NY 10549

Date of Assessment: October 19, 2016

Date of Report: November 1, 2016

Completed By: Justin Joe, PhD, CSP Industrial Hygienist / Building Inspector BNF Consulting, Inc. 152 Route 202, #404 LincoIndale, NY 10540 bnfjustin@gmail.com

The information, suggestions and recommendations contained herein are for general informational purposes only. This information has been compiled from sources believed to be reliable. No warranty, guarantee, or representation, either expressed or implied, is made as to the correctness or sufficiency of any representation contained herein.



#### EXECUTIVE SUMMARY

On October 19, 2016, lead water testing was completed for the Hillside School, one of the Bedford Central School District (BCSD) schools, located at 2 Green Street, Mount Kisco, NY 10549. Primarily assisting in the completion of this study were Mr. Gregory Sullivan, Interim Assistant Superintendent; Mr. Shawn Pitrulle, Interim Director of Buildings and Grounds; and maintenance staff in HS.

The purpose of this survey is to comply to 10 NYCRR SUBPART 67-4: Lead Testing in School Drinking Water. This subpart requires all school districts and boards of cooperative education services, including those already classified as a public water system under 10 NYCRR Subpart 5-1, to test portable water for lead contamination and to develop and implement a lead remediation plan, when applicable. Action Level used in the Subpart means 15 micrograms per liter ( $\mu$ g/L) or parts per billion (ppb). Exceedance of the action level requires a response to implement a lead remediation plan.

First-draw water samples were collected from all available water outlets including faucets, sinks and water fountains in and around the building. These areas included classrooms, restrooms, hallways, the kitchen, custodial closets, the boiler room and the exterior. The sampled water was motionless in the pipes for a minimum of 8 hours, but not more than 18 hours before the sample collection according to the guideline from the Subpart. The first-draw samples were collected from a cold water outlet before any water was used. The samples were sent to Phoenix Environmental Laboratories, Inc., which is approved to perform lead analyses by the Department's Environmental Laboratory Approval Program (ELAP#: 11715).

Lab results indicate that:

- 2 out of 12 water outlets were above the action level.
- No water fountains and kitchen sinks were above the action level.
- The following water outlets are listed as above the action level:
  - 1. Sink in the Custodial Closet on 1<sup>st</sup> FL
  - 2. Sink in the Faculty Restroom on 2<sup>nd</sup> FL





The following is a recommendation from this survey.

- 2016-10-01 Install carbon filters to reduce the lead content from the water outlet fixtures tested above the action level, or the allowable limits.
- 2016-10-02 Check for plumbing work. If copper pipes are joined with lead solder that has been installed, notify a qualified plumber to replace the lead solder with lead-free solder. Lead solder looks dull gray and when scratched with a key, looks shiny.
- 2016-10-03 Check type of piping used to connect to water main. Determine whether or not the service line that connects the building to the water line is made of lead.

#### CONCLUSION

This survey revealed that most of the lead testing from water source fixtures indicated low or non-detectable exposures. However, 2 out of 12 samples were above the Action Level, 15 micrograms per liter ( $\mu$ g/L) or parts per billion (ppb), listed in the report. No water fountains or kitchen sinks were above the action level.

The recommendations in this report are intended to achieve the goal of a safer and more healthful environment. If the recommendations are completed, future health issues should be prevented.

If there are any questions regarding the contents of this report or further assistance is needed for recommendation completion, please feel free to contact Dr. Justin Joe, who can be reached via the following:

Justin H. Joe, PhD, CSP BNF Consulting, Inc. 152 Route 202, #404 LincoIndale, NY 10540 bnfjustin@gmail.com

A closing Thank You is extended to all who assisted or participated in completion of this Survey.

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### APPENDIX A

### LEAD WATER TESTING LAB RESULTS



Monday, October 31, 2016

Attn: Justin Joe BNF Consulting 152 Route 202 #404 LincoIndale, NY 10540-0404

Project ID: HILLSIDE SCHOOL Sample ID#s: BV60170 - BV60181

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Alille.

Phyllis/Shiller Laboratory Director

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #MA-CT-007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 VT Lab Registration #VT11301





October 31, 2016

FOR: Attn: Justin Joe BNF Consulting 152 Route 202 #404 LincoIndale, NY 10540-0404

Sample Inform	nation	Custody Inform	nation	Date	<u>Time</u>
Matrix:	DRINKING WATER	Collected by:		10/20/16	6:14
Location Code:	BNFCNSLT	Received by:	LB	10/20/16	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#: Laboratory Data			Data	SDG ID: Phoenix ID:	GBV60170 BV60170
Project ID: Client ID:	HILLSIDE SCHOOL 879 1ST FLOOR GIRLS L	.EFT			

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead Total Metal Digestion	0.0034 Completed	0.0005	1	mg/L	0.015		10/26/16 10/21/16	RS CB/G/CE	E200.9/SM3113B-10 3 E200.9

RL/PQL=Reporting/Practical Quantitation Level DIL=Dilution (analysis required diluting to evaluate) ND=Not Detected BRL=Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.) AL = Action Level MCL = Maximum Contaminant Level MCLG = Maximum Contaminant Level Goal

#### Comments:

Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

Phyllis, Shiller, Laboratory Director October 31, 2016 Reviewed and Released by: Bobbi Aloisa, Vice President





October 31, 2016

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Sample Inforr	nation	Custody Inform	nation	Date	<u>Time</u>
Matrix:	DRINKING WATER	Collected by:		10/20/16	6:14
Location Code:	BNFCNSLT	Received by:	LB	10/20/16	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:		Laboratory Data			
Project ID: Client ID:	HILLSIDE SCHOOL 880 1ST FLOOR GIRLS F	RIGHT			

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead Total Metal Digestion	0.0050 Completed	0.0005	1	mg/L	0.015		10/26/16 10/21/16	RS CB/G/CE	E200.9/SM3113B-10 3 E200.9

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Sample Infor	mation	Custody Inform	nation	Date	<u>Time</u>	
Matrix:	DRINKING WATER	Collected by:		10/20/16	6:18	
Location Code	BNFCNSLT	Received by:	LB	10/20/16	16:32	
Rush Request:	Standard	Analyzed by:	see "By" below			
P.O.#:		Laboratory	Data	SDG ID: GBV60170 Phoenix ID: BV60172		
Project ID: Client ID:	HILLSIDE SCHOOL 881 1ST FLOOR BOYS L	EFT		Theorem P.	5100112	
		RI/				

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead Total Metal Digestion	0.0045 Completed	0.0020	4	mg/L	0.015		10/25/16 10/22/16		E200.9/SM3113B-10 E200.9

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Sample Inforr	nation	Custody Inform	nation	Date	<u>Time</u>
Matrix:	DRINKING WATER	Collected by:		10/20/16	6:18
Location Code	BNFCNSLT	Received by:	LB	10/20/16	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:		Laboratory	Data	SDG ID: Phoenix ID:	GBV60170 BV60173
Project ID: Client ID:	HILLSIDE SCHOOL 882 1ST FLOOR BOYS F	RIGHT		T HOCHIX ID.	BV00110

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead Total Metal Digestion	0.0057 Completed	0.0005	1	mg/L	0.015		10/26/16 10/21/16	RS CB/G/CE	E200.9/SM3113B-10 3 E200.9

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Phyllis, Shiller, Laboratory Director October 31, 2016 Reviewed and Released by: Bobbi Aloisa, Vice President





Analysis	Report
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October 31, 2016

FOR: Attn: Justin Joe BNF Consulting 152 Route 202 #404 LincoIndale, NY 10540-0404

Sample Inforn	nation		<u>Cu</u>	stody I	nforma	ation			Da	<u>te</u>	<u>Time</u>
Matrix:	DRINKING	WATER	Col	lected b	by:				10/2	20/16	6:15
Location Code:	BNFCNSL	Т	Rec	ceived b	oy:	LB			10/2	20/16	16:32
Rush Request:	Standard		Ana	alyzed b	by:	see	e "By" l	below			
P.O.#:			Lab	orat	ory	Da	<u>ta</u>				D: GBV60170 D: BV60174
Project ID: Client ID:	HILLSIDE SC 883 1ST FLC										
Parameter		Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead Total Metal Diges	tion	0.0056 Completed	0.0005	1	mg/L	0.015			10/26/16 10/21/16	RS CB/G/CI	E200.9/SM3113B-10 B E200.9

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October 31, 2016

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Sample Informa	ation	Custody Inform	nation	Date	<u>Time</u>
Matrix:	DRINKING WATER	Collected by:		10/20/16	6:14
Location Code:	BNFCNSLT	Received by:	LB	10/20/16	16:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

## Laboratory Data

SDG ID: GBV60170 Phoenix ID: BV60175

Project ID: HILLSIDE SCHOOL

Client ID: 884 1ST FL CUSTODIAL CLOSET

Parameter	Result	RL/ PQL	DIL	Units	AL MCL	MCLG Date/Time	Ву	Reference
Lead	0.0182	0.0020	4	mg/L	0.015	10/26/16	RS	E200.9/SM3113B-10
*** Lead exceeds Action Level of	0.015 ***							
Total Metal Digestion	Completed					10/21/16	CB/G/CE	B E200.9

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

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Page 6 of 12





Time

6:29

16:32

Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 31, 2016

FOR: Attn: Justin Joe BNF Consulting 152 Route 202 #404 LincoIndale, NY 10540-0404

 Sample Information
 Custody Information

 Matrix:
 DRINKING WATER
 Collected by:

Location Code: BNFCNSLT Rush Request: Standard P.O.#: Collected by: Received by: LB Analyzed by: see "By" below

## Laboratory Data

SDG ID: GBV60170 Phoenix ID: BV60176

Date

10/20/16

10/20/16

Project ID: HILLSIDE SCHOOL

Client ID: 885 2ND FL FACULTY RESTROOM

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead	0.0301	0.0020	4	mg/L	0.015		10/26/16	RS	E200.9/SM3113B-10
*** Lead exceeds Action Level of	0.015 ***								
Total Metal Digestion	Completed						10/21/16	CB/G/C	в Е200.9

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October 31, 2016

FOR: Attn: Justin Joe BNF Consulting 152 Route 202 #404 LincoIndale, NY 10540-0404

Sample Inform	nation		<u>Cus</u>	stody I	nforma	ation			Da	<u>te</u>	Time
Matrix:	DRINKING	WATER	Coll	lected b	by:				10/2	20/16	6:27
Location Code:	BNFCNSL	Т	Rec	eived b	by:	LB			10/2	20/16	16:32
Rush Request:	Standard		Ana	lyzed b	y:	see	e "By" l	below			
P.O.#:			<u>Lab</u>	orat	ory	Da	<u>ta</u>			-	D: GBV60170 D: BV60177
Project ID: Client ID:	HILLSIDE SC 886 2ND FL										
Parameter		Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead Total Metal Diges	stion	0.0023 Completed	0.0005	1	mg/L	0.015			10/26/16 10/21/16	RS CB/G/CE	E200.9/SM3113B-10 B E200.9

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October 31, 2016

FOR: Attn: Justin Joe BNF Consulting 152 Route 202 #404 LincoIndale, NY 10540-0404

Sample Inform	nation	Custody Inform	nation	Date	<u>Time</u>	
Matrix:	DRINKING WATER	Collected by:		10/20/16	6:27	
Location Code:	BNFCNSLT	Received by:	LB	10/20/16	16:32	
Rush Request:	Standard	Analyzed by:	see "By" below			
P.O.#:		Laboratory	Data	SDG ID: GBV60170		
				Phoenix ID:	BV60178	
Project ID:	HILLSIDE SCHOOL					
Client ID:	887 2ND FL GIRLS RIGH	Т				

Parameter	Result	RL/ PQL	DIL	Units	AL M	CL MCLG Date/Time	e By	Reference
Lead Total Metal Digestion	0.0022 Completed	0.0005	1	mg/L	0.015	10/26/16 10/21/16	RS CB/G/CB	E200.9/SM3113B-10 E200.9

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October 31, 2016

FOR: Attn: Justin Joe BNF Consulting 152 Route 202 #404 LincoIndale, NY 10540-0404

Sample Inform	nation		Cus	stody I	nforma	ation			Da	te	<u>Time</u>
Matrix:	DRINKING	WATER	Col	lected b	oy:				10/2	20/16	6:24
Location Code:	BNFCNSL	Т	Rec	ceived b	oy:	LB			10/2	20/16	16:32
Rush Request:	Standard		Ana	alyzed b	by:	see	e "By" I	below			
P.O.#:			<u>Lab</u>	orat	ory	Da	<u>ta</u>				D: GBV60170 D: BV60179
Project ID: Client ID:	HILLSIDE SC 888 2ND FL I										
Parameter		Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	Ву	Reference
Lead Total Metal Diges	stion	0.0034 Completed	0.0005	1	mg/L	0.015			10/26/16 10/21/16	RS CB/G/CI	E200.9/SM3113B-10 B E200.9

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October 31, 2016

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Sample Information			stody I	nforma	<u>ition</u>	Date	<u>e</u>	<u>Time</u>		
Matrix:	DRINKING WATER	Col	lected I	by:			10/2	0/16	6:44	
Location Code	: BNFCNSLT	Red	ceived l	by:	LB		10/2	0/16	16:32	
Rush Request:	Standard	Ana	alyzed b	oy:	see "By"	below				
P.O.#:		Laboratory Data					SDG ID: GBV60170 Phoenix ID: BV60180			
Project ID: Client ID:	HILLSIDE SCHOOL 889 2ND FL BOYS RIGHT									
Parameter	Result	RL/ PQL	DIL	Units	AL MCL	MCLG Dat	e/Time	By	Reference	

Falameter	Result	FQL		Units		MCLG Date/Time	Бу	Kelelelice
Lead	0.0037	0.0020	4	mg/L	0.015	10/26/16	RS	E200.9/SM3113B-10
Total Metal Digestion	Completed					10/21/16	CB/G/C	в Е200.9

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FOR: Attn: Justin Joe BNF Consulting 152 Route 202 #404 LincoIndale, NY 10540-0404

Sample Informa	ation	Custody Inform	nation	Date	<u>Time</u>	
Matrix:	DRINKING WATER	Collected by:		10/20/16	6:22	
Location Code:	BNFCNSLT	Received by:	LB	10/20/16	16:32	
Rush Request:	Standard	Analyzed by:	see "By" below			
P.O.#:		Laboratory	Data	SDG ID:	GBV6017	

Phoenix ID: BV60181

70

Project ID: HILLSIDE SCHOOL Client ID: 890 2ND FL CUSTODIAL CLOSET

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG Date/Time	By	Reference
Lead Total Metal Digestion	0.0092 Completed	0.0005	1	mg/L	0.015		10/26/16 10/21/16	RS CB/G/CE	E200.9/SM3113B-10 3 E200.9

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#### Comments:

Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

Phyllis, Shiller, Laboratory Director October 31, 2016 Reviewed and Released by: Bobbi Aloisa, Vice President





SDG I.D.: GBV60170

QA/QC Report October 31, 2016

## QA/QC Data

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 363818 (mg/L), C	C Sam	ole No: I	BV59005	(BV601	72)									
Lead Comment:	BRL	0.001	0.0053	0.0053	0	98.4			90.9			85 - 115	20	
Additional: LCS acceptance range	is 85-11	5% MS a	acceptance	e range 7	/5-125%									
QA/QC Batch 363818A (mg/L),	QC Sar	nple No	: BV6016	7 (BV60	170, B\	/60171	, BV601	73, BV	60174,	BV6017	75, BV6	60176)		
Lead Comment:	BRL	0.001				98.4			88.3			85 - 115	20	
This batch does not include a dup	licate.													
Additional: LCS acceptance range	is 85-11	5% MS a	acceptance	e range 7	5-125%									
QA/QC Batch 363932 (mg/L), C	C Sam	ble No: I	BV60172	(BV601	72)									
Lead Comment:	BRL	0.001	0.0045	0.0033	NC	86.3			68.5			85 - 115	20	m
Additional: LCS acceptance range	is 85-11	5% MS a	acceptance	e range 7	5-125%									
QA/QC Batch 363819 (mg/L), C	C Sam	ole No: I	BV60177	(BV601	77, BV6	0178,	BV6017	9, BV60	)180, B	V60181	)			
Lead Comment:	BRL	0.001	0.0023	0.0023	NC	92.0			89.1			85 - 115	20	
Additional: LCS acceptance range	is 85-11	5% MS a	acceptance	e range 7	5-125%									
m = This parameter is outside laboratory MS/MSD specified recovery limits. If there are any questions regarding this data, please call Phoenix Client Services at extension 200.														

**RPD** - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director October 31, 2016

Monday, October 31, 2016

Criteria: None State: NY

## Sample Criteria Exceedances Report

GBV60170 - BNFCNSLT

Jia	C. INI						RL	Analvsis	
SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Units	
BV60175	PB-DW	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0182	0.0020	0.015	0.001	mg/L	
BV60175	PB-DW	Lead	NY / NY Residential DW / Lead & Copper Als	0.0182	0.0020	0.015	0.015	mg/L	
BV60176	PB-DW	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0301	0.0020	0.015	0.001	mg/L	
BV60176	PB-DW	Lead	NY / NY Residential DW / Lead & Copper Als	0.0301	0.0020	0.015	0.015	mg/L	

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



## **NY Temperature Narration**

October 31, 2016



SDG I.D.: GBV60170

The samples in this delivery group were received at 20°C. (Note acceptance criteria is above freezing up to  $6^{\circ}$ C)

# BNF BCSD Lead Water Sampling COC - Hillside School

879	10/19 20	000 10/20	0614	Hillside	See the floor plan	1st Floor Girls Left	60170
880	10/19 20					1st Floor Girls Right	60171
881	10/19 20	002 10/20	0618	Hillside	See the floor plan	1st Floor Boys Left	60172
882	10/19 20					1st Floor Boys Right	60173
883	10/19 20				See the floor plan		60174
884	10/19 15	550 10/20	021	Hillside	See the floor plan	1st FL custodial closet	60175
885	10/19 15	555 10/20	0629	Hillside	See the floor plan	2nd FL Faculty Restroom	60176
886	10/19 15	537 10/20	0627	Hillside	See the floor plan	2nd FL Girls Left	60177
887	10/19 15	537 10/20	0627	Hillside	See the floor plan	2nd FL Girls Right	60178
888	10/19 15	538 10/20	CELY	Hillside	See the floor plan	2nd FL Boys Left	60179
889	10/19 15	538 10/20	0624	Hillside	See the floor plan	2nd FL Boys Right	60180
890	10/19 15	539 10/20	0622	Hillside	See the floor plan	2nd FL custodial closet	60181
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30° N/C