

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 Tel (708) 544-3260 Toll Free (800) 783-5227 Fax (708) 544-8587 www.suburbanlabs.com

April 19, 2016

Valerie Hofmann Hygieneering, Inc. 7575 Plaza Court

Willowbrook, IL 60521

TEL: (630) 654-2550

FAX:

RE: 2016-2607 Lyon Elementary School

Dear Valerie Hofmann:

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

Work Order: 1604B49

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Pat Rodriguez

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Customer Service Manager

708-544-3260 ext. 214

pat@suburbanlabs.com

Illinois Department of Public Health #17585



Illinois EPA #100225 Wisconsin FID#:399089350



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Case Narrative

Client: HYGIENEERING

Project: 2016-2607 Lyon Elementary School

PO: 2016-2607

PO: 2016-2607

QC Level:

Temperature of samples upon receipt at lab: 23 C Chain of Custody: EV

General Comments:

WorkOrder: 1604B49

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All water analyses that are required to be performed in the field (e.g., pH, residual chlorine, sulfite, temperature, etc.) but are analyzed in the lab are identified as "in lab" and are considered past holding time. Following industry practices these results do not contain an "H" flag but are qualified as being analyzed in the lab.

Abbreviations:

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:



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Laboratory Results

Client: Hygieneering, Inc.				Re	port Date:	April 19	9, 2016	
Project: 2016-2607 Lyon Elementary Se	chool			W	orkorder:	1604B4	19	
Client Sample ID: 1335-Rm 29 F29					Matrix	x: Drin	king Water	
Lab ID: 1604B49-001	Date Received: 4/	18/2016 8	:04 AM	Col	lection Date	e: 4/16/	/2016 14:34 PM	
Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS	Method: EPA	-200.8-5.4, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/18/2016 7:00 PM	35650
Client Sample ID: 1335-HF26					Matrix	x: Drin	king Water	
Lab ID: 1604B49-002	Date Received: 4/	18/2016 8	:04 AM	Col	lection Date	e: 4/16/	/2016 14:40 PM	
Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS	Method: EPA	-200.8-5.4, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/18/2016 7:03 PM	35650
Client Sample ID: 1335-HF8A					Matrix	x: Drin	king Water	
Lab ID: 1604B49-003	Date Received: 4/	18/2016 8	:04 AM	Col	lection Date	e: 4/16/	/2016 14:45 PM	
Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS	Method: EPA	-200.8-5.4, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/18/2016 7:06 PM	35650
Client Sample ID: 1335-HF8B					Matrix	x: Drin	king Water	
Lab ID: 1604B49-004	Date Received: 4/	18/2016 8	:04 AM	Col			/2016 14:45 PM	
Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS	Method: EPA	-200.8-5.4, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/18/2016 7:29 PM	35651



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Laboratory Results

Client: Hygieneering, Inc.				Re	port Date:	April 19	9, 2016	
Project: 2016-2607 Lyon Elementary	School			W	orkorder:	1604B4	19	
Client Sample ID: 1335-HF45A					Matrix	k: Drin	king Water	
Lab ID: 1604B49-005	Date Received: 4/	18/2016 8	:04 AM	Col	lection Date	e: 4/16/	2016 14:46 PM	
Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS	Method: EPA	200.8-5.4, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/18/2016 7:32 PM	M 35651
Client Sample ID: 1335-HF45B					Matrix	x: Drinl	king Water	
Lab ID: 1604B49-006	Date Received: 4/	18/2016 8	:04 AM	Col	lection Date	e: 4/16/	2016 14:46 PM	
Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS	Method: EPA	-200.8-5.4, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/18/2016 7:35 PM	M 35651
Client Sample ID: 1335-HF52A					Matrix	x: Drin	king Water	
Lab ID: 1604B49-007	Date Received: 4/	18/2016 8	:04 AM	Col	lection Date	e: 4/16/	2016 14:50 PM	
Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS	Method: EPA	-200.8-5.4, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/18/2016 7:37 PM	М 35651
Client Sample ID: 1335-HF52B					Matrix	k: Drinl	king Water	
Lab ID: 1604B49-008	Date Received: 4/	18/2016 8	:04 AM	Col	lection Date	e: 4/16/	/2016 14:50 PM	
Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS	Method: EPA	-200.8-5.4, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/18/2016 7:40 PM	М 35651



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Prep Dates

Report Date: April 19, 2016 Original

Workorder: 1604B49

Client: Hygieneering, Inc.

Project: 2016-2607 Lyon Elementary School

Sample ID	Client Sample ID	Collection Date	Prep Batch Prep Test Name	Leachate Date Prep Date
1604B49-001A	1335-Rm 29 F29	4/16/2016 2:34 PM		
			35650 Turbidity Check	4/18/2016 11:54 AM
1604B49-002A	1335-HF26	4/16/2016 2:40 PM		
			35650 Turbidity Check	4/18/2016 11:54 AM
1604B49-003A	1335-HF8A	4/16/2016 2:45 PM		
			35650 Turbidity Check	4/18/2016 11:54 AM
1604B49-004A	1335-HF8B	4/16/2016 2:45 PM		
			35651 Turbidity Check	4/18/2016 11:55 AM
1604B49-005A	1335-HF45A	4/16/2016 2:46 PM		
			35651 Turbidity Check	4/18/2016 11:55 AM
1604B49-006A	1335-HF45B	4/16/2016 2:46 PM		
			35651 Turbidity Check	4/18/2016 11:55 AM
1604B49-007A	1335-HF52A	4/16/2016 2:50 PM		
			35651 Turbidity Check	4/18/2016 11:55 AM
1604B49-008A	1335-HF52B	4/16/2016 2:50 PM		
			35651 Turbidity Check	4/18/2016 11:55 AM



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Qualifier Definitions

Report Date: April 19, 2016

WorkOrder: 1604B49

Qualifiers:

В	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
C	Value is below Minimum Concentration Limit
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
Н	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compound
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode

Value exceeds Maximum Contaminant Level

ut this form completely, print, sign & submit with samples. Keep a copy for your records	submit with sample	y, print, sign & :	ompletel	fill out this form o	Please fill or		Rev. 7/20/08		n báčk.//	nd Conditions o	ct to Terms a	Submission of samples subject to Terms and Conditions on back.	Submissi
	Received By	Time	☐ Ice	ay	Received By	R:04	☐ Ice Ti	<u>»</u> x	Received By	Reco	Ice Time	•	Received By
	4. Relinquished By	Date		shed By	0	1-18-1	D		2. Relinquished By	2. Fu	Date	ed By	1, Relinquished By
6. Received frozen 7. Label conflicts with COC												H ₂ SO ₄ , HCl, HNO ₃ , Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio	±2SO₄, HCI, √aOH, Sodi
5. Received past holding time)::' <u>G</u>	Glass (G), Plastic (P) PRESERVATIVE:	3lass (G), F
											, N	Sludge (U), Wipe (P) CONTAINER: 20z.	Sludge (U),
Improper/damaged container/cap Improper preservation						SNO	D SECTI	FLIGHTE	PLEASE COMPLETE THE HIGHLIGHTED SECTIONS	ASE COMPLI		Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA)	Waste Wate
CONDITION CODES								TIONS:	COMMENTS & SPECIAL INSTRUCTIONS:	MMENTS & SPE		MATRIX: Drinking Water (DW), Soll (S),	MATRIX: D
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			×	HNO3	8 oz.	I	G	DW	16 2340	411-16	F29	1335-Rm29	<u>-</u> در:
R Condition			Ме	PRESERVATIVE	SIZE & TYPE	o. Oty	IX COMP.	MATRIX	E TIME	D	ի & Container Typ	Use One Line Per Preservation & Container Type	Us
Samples received within 24 hours of collection?			ethod		CONTAINERS		GRAB/		COLLECTION	<u>Ω</u>	CATION	SAMPLE IDENTIFICATION	
Temperature of Received Samples			200.	*Please specify in comment section below.	Other secti	osal	Disposal			Josh Leer, Chris Gatrel, Jeff Clark	Chris Gatre	1 1	Sample Collector(s)
Sample containers supplied by customer?				MWRDGC	NPDES] 503 Sludge	503		/		Valerie Hofmann	eport to)	^o roject Man
SLI Order			ad	SDWA	SRP		msn	School	lementary S	U	607/ LY	ocation 2016-2607/	Project ID / Location
LAB USE				None/Info only		Specify Regulatory Program: (Required)	Specify F			<u>ıg.com</u>	ygieneerir	» Vhofmann@hygieneering.com	Email Address
QC Reporting Level				Normal TAT is 5-7 work days for most work. Flush work must be pre-approved and additional charges apply.	k days for most work d and additional cha	Γ is 5-7 work re-approved	Normal TA	eport	☐ Fax Report		Fax	630-706-6684	Phone
Shipping Method						ne Needeo	*Date & Time Needed:		60527	IL Zip	State	Willowbrook	ony Wil
PO No.	below for request	Enter an "X" in box below for request	g	*Additional Rush Charges Approved.	RUSH* Cha		Normal				Court		Company Address
Page		ANALYSIS & METHOD REQUESTED	Ž	QUESTED	TURNAROUND TIME REQUESTED	IRNARO	7				ng, INC	me Hygieneering, INC.	Company N
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