



April 19, 2016

Valerie Hofmann  
Hygieneering, Inc.  
7575 Plaza Court  
Willowbrook, IL 60521

Work Order: 1604B45

TEL: (630) 654-2550

FAX:

RE: 2016-2607 Hoffman Elementary

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.

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  
Customer Service Manager  
708-544-3260 ext. 214  
[pat@suburbanlabs.com](mailto:pat@suburbanlabs.com)



Illinois Department of Public Health #17585

Illinois EPA #100225 Wisconsin FID#:399089350



## Case Narrative

**Client:** HYGIENEERING

**Date:** April 19, 2016

**Project:** 2016-2607 Hoffman Elementary

**PO:** 2016-2607

**WorkOrder:** 1604B45

**QC Level:**

**Temperature of samples upon receipt at lab:** 23 C

**Chain of Custody:** EV

### General Comments:

- 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:

# SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260



## Laboratory Results

**Client:** Hygieneering, Inc.

**Report Date:** April 19, 2016

**Project:** 2016-2607 Hoffman Elementary

**Workorder:** 1604B45

**Client Sample ID:** 2000-Rm32B

**Matrix:** Drinking Water

**Lab ID:** 1604B45-001

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:29 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk			
Lead	ND	15.0	5.00		µg/L	1	4/18/2016 6:02 PM	35650

**Client Sample ID:** 2000-Rm32c1

**Matrix:** Drinking Water

**Lab ID:** 1604B45-002

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:34 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk			
Lead	ND	15.0	5.00		µg/L	1	4/18/2016 6:05 PM	35650

**Client Sample ID:** 2000-Rm32C2

**Matrix:** Drinking Water

**Lab ID:** 1604B45-003

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:37 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk			
Lead	ND	15.0	5.00		µg/L	1	4/18/2016 6:17 PM	35650

**Client Sample ID:** 2000-HF28

**Matrix:** Drinking Water

**Lab ID:** 1604B45-004

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:40 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk			
Lead	ND	15.0	5.00		µg/L	1	4/18/2016 6:20 PM	35650

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## Laboratory Results

**Client:** Hygieneering, Inc.

**Report Date:** April 19, 2016

**Project:** 2016-2607 Hoffman Elementary

**Workorder:** 1604B45

**Client Sample ID:** 2000-Rm 26 F26

**Matrix:** Drinking Water

**Lab ID:** 1604B45-005

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:42 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID	
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk				
Lead	269	15.0	5.00	*	µg/L	1	4/18/2016 6:23 PM	35650	

**Client Sample ID:** 2000-Rm 25 F25

**Matrix:** Drinking Water

**Lab ID:** 1604B45-006

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:44 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID	
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk				
Lead	299	15.0	5.00	*	µg/L	1	4/18/2016 6:25 PM	35650	

**Client Sample ID:** 2000-Rm 24 F24

**Matrix:** Drinking Water

**Lab ID:** 1604B45-007

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:47 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID	
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk				
Lead	19.5	15.0	5.00	*	µg/L	1	4/18/2016 6:31 PM	35650	

**Client Sample ID:** 2000-Rm 23 F23

**Matrix:** Drinking Water

**Lab ID:** 1604B45-008

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:49 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID	
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk				
Lead	548	15.0	5.00	*	µg/L	1	4/18/2016 6:34 PM	35650	

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## Laboratory Results

**Client:** Hygieneering, Inc.

**Report Date:** April 19, 2016

**Project:** 2016-2607 Hoffman Elementary

**Workorder:** 1604B45

**Client Sample ID:** 2000-HF42A

**Matrix:** Drinking Water

**Lab ID:** 1604B45-009

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:56 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS			Method: EPA-200.8-5.4, 1994			Analyst: jmk		
Lead	ND	15.0	5.00		µg/L	1	4/18/2016 6:37 PM	35650

**Client Sample ID:** 2000-HF42B

**Matrix:** Drinking Water

**Lab ID:** 1604B45-010

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 13:56 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS			Method: EPA-200.8-5.4, 1994			Analyst: jmk		
Lead	ND	15.0	5.00		µg/L	1	4/18/2016 6:40 PM	35650

**Client Sample ID:** 2000-HF31A

**Matrix:** Drinking Water

**Lab ID:** 1604B45-011

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 14:00 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS			Method: EPA-200.8-5.4, 1994			Analyst: jmk		
Lead	8.96	15.0	5.00		µg/L	1	4/18/2016 6:54 PM	35650

**Client Sample ID:** 2000-HF31B

**Matrix:** Drinking Water

**Lab ID:** 1604B45-012

**Date Received:** 4/18/2016 8:04 AM

**Collection Date:** 4/16/2016 14:00 PM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS			Method: EPA-200.8-5.4, 1994			Analyst: jmk		
Lead	ND	15.0	5.00		µg/L	1	4/18/2016 6:57 PM	35650

# SUBURBAN LABORATORIES, Inc.

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## Prep Dates

**Client:** Hygieneering, Inc.

**Report Date:** April 19, 2016  
Original

**Project:** 2016-2607 Hoffman Elementary

**Workorder:** 1604B45

Sample ID	Client Sample ID	Collection Date	Prep Batch	Prep Test Name	Leachate Date	Prep Date
1604B45-001A	2000-Rm32B	4/16/2016 1:29 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-002A	2000-Rm32c1	4/16/2016 1:34 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-003A	2000-Rm32C2	4/16/2016 1:37 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-004A	2000-HF28	4/16/2016 1:40 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-005A	2000-Rm 26 F26	4/16/2016 1:42 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-006A	2000-Rm 25 F25	4/16/2016 1:44 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-007A	2000-Rm 24 F24	4/16/2016 1:47 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-008A	2000-Rm 23 F23	4/16/2016 1:49 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-009A	2000-HF42A	4/16/2016 1:56 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-010A	2000-HF42B	4/16/2016 1:56 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-011A	2000-HF31A	4/16/2016 2:00 PM	35650	Turbidity Check		4/18/2016 11:54 AM
1604B45-012A	2000-HF31B	4/16/2016 2:00 PM	35650	Turbidity Check		4/18/2016 11:54 AM



**Report Date:** April 19, 2016

**WorkOrder:** 1604B45

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**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- B 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
- H 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



**SUBURBAN LABORATORIES, Inc.**  
 1950 S Batavia Ave Ste 150 Geneva, IL 60134  
 Tel: 708.544.3260 Fax: 708.544.8587

**CHAIN OF CUSTODY RECORD**  
 Toll Free: 800.783.LABS  
 www.suburbanlabs.com

# Electronic Version  
 Page 1 of 1  
 PO No. 2016-2607

Company Name: **Hygieneering, Inc.**

Company Address: **7575 Plaza Court**

City: **Willowbrook** State: **IL** Zip: **60527**

Phone: **630-706-6684** Fax:  Fax Report

Email Address: **vhofmann@hygieneering.com**

Project ID / Location: **2016-2607/ Hoffman Elementary**

Project Manager (Report to): **Valerie Hofmann**

Sample Collector(s): **Josh Leer, Chris Gattel, Jeff Clark**

**TURNAROUND TIME REQUESTED**  
 Normal  RUSH\*  
 \*Additional Rush Charges Approved.

**Date & Time Needed:**  
 Normal TAT is 5-7 work days for most work. Rush work must be pre-approved and additional charges apply.

**Specify Regulatory Program:**  None/Info only  
 LUST  SRP  SDWA  
 503 Sludge  NPDES  MWRDGC  
 Disposal  Other \*Please specify in comment section below.

**ANALYSIS & METHOD REQUESTED**  
 Enter an "X" in box below for request

SAMPLE IDENTIFICATION	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS	PRESERVATIVE	ANALYSIS & METHOD REQUESTED
	DATE	TIME					
1 2000-Rm 32B	4-16-16	1:29	DW	G	1 8 oz.	HNO3	X Method 200.8 Lead
2 2000-Rm 32C1		1:34					Y
3 2000-Rm 32C2		1:37					Y
4 2000-HF 28		1:40					Y
5 2000-Rm 26-P26		1:42					Y
6 2000-Rm 25-F35		1:44					Y
7 2000-Rm 24-F34		1:47					Y
8 2000-Rm 23-F33		1:49					Y
9 2000-HF 29A		1:56					Y
10 2000-HF 29B		1:56					Y
11 2000-HF 31A		2:00					Y
12 2000-HF 31B		2:00					Y

**MATRIX:** Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H2SO4, HCl, HNO3, Methanol (MOOH), NaOH, Sodium Bisulfate (NAB), NaTrio

**COMMENTS & SPECIAL INSTRUCTIONS:**  
 PLEASE COMPLETE THE HIGHLIGHTED SECTIONS

**CONDITION CODES:**  
 1. Improper/damaged container/cap  
 2. Improper preservation  
 3. Insufficient sample volume  
 4. Headspace/air bubbles for VOCs  
 5. Received past holding time  
 6. Received frozen  
 7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
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Received By	Time	Received By	Time	Received By	Time	Received By	Time
<input type="checkbox"/> Ice		<input checked="" type="checkbox"/> Ice	8:04	<input type="checkbox"/> Ice		<input type="checkbox"/> Ice	

Submission of samples subject to Terms and Conditions on back. Rev. 7/20/08 Please fill out this form completely, print, sign & submit with samples. Keep a copy for your records.