



April 15, 2016

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

Work Order: 1604978

TEL: (630) 654-2550

FAX:

RE: 2016-2607 / Springman Middle 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.

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,

A handwritten signature in black ink that reads "Pat Rodriguez". The signature is fluid and cursive.

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





## Case Narrative

**Client:** HYGIENEERING

**Date:** April 15, 2016

**Project:** 2016-2607 / Springman Middle School

**PO:** 2016-2607

**WorkOrder:** 1604978

**QC Level:**

**Temperature of samples upon receipt at lab:** 4 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:

1604978-010A was preserved in the lab.

# SUBURBAN LABORATORIES, Inc.

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



## Laboratory Results

**Client:** Hygieneering, Inc.

**Report Date:** April 15, 2016

**Project:** 2016-2607 / Springman Middle School

**Workorder:** 1604978

**Client Sample ID:** 2701 Kit A

**Matrix:** Drinking Water

**Lab ID:** 1604978-001

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:15 AM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID	
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk				
Lead	40.3	15.0	5.00	*	µg/L	1	4/15/2016 12:29 PM	35598	

**Client Sample ID:** 2701 Kit B

**Matrix:** Drinking Water

**Lab ID:** 1604978-002

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:16 AM

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	4/14/2016 3:45 PM	35598	

**Client Sample ID:** 2701 Kit C

**Matrix:** Drinking Water

**Lab ID:** 1604978-003

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:16 AM

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	4/14/2016 3:48 PM	35598	

**Client Sample ID:** 2701 Kit D

**Matrix:** Drinking Water

**Lab ID:** 1604978-004

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:17 AM

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	4/14/2016 3:51 PM	35598	

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## Laboratory Results

**Client:** Hygieneering, Inc.

**Report Date:** April 15, 2016

**Project:** 2016-2607 / Springman Middle School

**Workorder:** 1604978

**Client Sample ID:** 2701 Kit E

**Matrix:** Drinking Water

**Lab ID:** 1604978-005

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:17 AM

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	4/14/2016 3:54 PM	35598

**Client Sample ID:** 2701 Kit F

**Matrix:** Drinking Water

**Lab ID:** 1604978-006

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:18 AM

Parameter	Result	MCL	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICPMS		Method: EPA-200.8-5.4, 1994			Analyst: jmk			
Lead	7.03	15.0	5.00		µg/L	1	4/14/2016 3:59 PM	35598

**Client Sample ID:** 2701 Kit G

**Matrix:** Drinking Water

**Lab ID:** 1604978-007

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:19 AM

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	4/14/2016 4:02 PM	35598

**Client Sample ID:** 2701 Kit H

**Matrix:** Drinking Water

**Lab ID:** 1604978-008

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:19 AM

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	4/14/2016 4:20 PM	35598

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## Laboratory Results

**Client:** Hygieneering, Inc.

**Report Date:** April 15, 2016

**Project:** 2016-2607 / Springman Middle School

**Workorder:** 1604978

**Client Sample ID:** 2701 Kit I

**Matrix:** Drinking Water

**Lab ID:** 1604978-009

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:20 AM

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	4/14/2016 4:23 PM	35598

**Client Sample ID:** 2701 Kit J

**Matrix:** Drinking Water

**Lab ID:** 1604978-010

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:24 AM

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	4/15/2016 11:52 AM	35617

**Client Sample ID:** 2701 Kit K

**Matrix:** Drinking Water

**Lab ID:** 1604978-011

**Date Received:** 4/14/2016 14:20 PM

**Collection Date:** 4/13/2016 10:23 AM

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	4/14/2016 4:26 PM	35598

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## Prep Dates

**Client:** Hygieneering, Inc.

**Report Date:** April 15, 2016  
Original

**Project:** 2016-2607 / Springman Middle School

**Workorder:** 1604978

Sample ID	Client Sample ID	Collection Date	Prep Batch	Prep Test Name	Leachate Date	Prep Date
1604978-001A	2701 Kit A	4/13/2016 10:15 AM	35598	Turbidity Check		4/14/2016 2:33 PM
1604978-002A	2701 Kit B	4/13/2016 10:16 AM	35598	Turbidity Check		4/14/2016 2:33 PM
1604978-003A	2701 Kit C	4/13/2016 10:16 AM	35598	Turbidity Check		4/14/2016 2:33 PM
1604978-004A	2701 Kit D	4/13/2016 10:17 AM	35598	Turbidity Check		4/14/2016 2:33 PM
1604978-005A	2701 Kit E	4/13/2016 10:17 AM	35598	Turbidity Check		4/14/2016 2:33 PM
1604978-006A	2701 Kit F	4/13/2016 10:18 AM	35598	Turbidity Check		4/14/2016 2:33 PM
1604978-007A	2701 Kit G	4/13/2016 10:19 AM	35598	Turbidity Check		4/14/2016 2:33 PM
1604978-008A	2701 Kit H	4/13/2016 10:19 AM	35598	Turbidity Check		4/14/2016 2:33 PM
1604978-009A	2701 Kit I	4/13/2016 10:20 AM	35598	Turbidity Check		4/14/2016 2:33 PM
1604978-010A	2701 Kit J	4/13/2016 10:24 AM	35617	Turbidity Check		4/15/2016 10:22 AM
1604978-011A	2701 Kit K	4/13/2016 10:23 AM	35598	Turbidity Check		4/14/2016 2:33 PM



**Report Date:** April 15, 2016

**WorkOrder:** 1604978

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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

