

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 15, 2016

Valerie Hofmann Hygieneering, Inc. 7575 Plaza Court

Willowbrook, IL 60521

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.

Work Order: 1604978

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

Panu Rodyu-

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 / Springman Middle School

PO: 2016-2607

PO: 2016-2607

QC Level:

Temperature of samples upon receipt at lab: 4 C Chain of Custody: EV

General Comments:

WorkOrder: 1604978

- 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.



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Laboratory Results

Client: Hygieneering, Inc.				Re	port Date:	April 15	5, 2016	
Project: 2016-2607 / Springman Mid-	dle School			W	orkorder:	160497	8	
Client Sample ID: 2701 Kit A					Matrix	: Drinl	king Water	
Lab ID: 1604978-001	Date Received: 4/	14/2016 1	4:20 PM	Col	lection 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, 1	994				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	: Drinl	king Water	
Lab ID: 1604978-002	Date Received: 4/	14/2016 1	4:20 PM	Col	lection 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, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00		μg/L	1	4/14/2016 3:45 PM	I 35598
Client Sample ID: 2701 Kit C					Matrix	: Drinl	king Water	
Lab ID: 1604978-003	Date Received: 4/	14/2016 1	4:20 PM	Col	lection 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, 1	994				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	: Drinl	king Water	
Lab ID: 1604978-004	Date Received: 4/	14/2016 1	4:20 PM	Col	lection Date	e: 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, 1	994				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.				Re	port Date:	April 15	5, 2016	
Project: 2016-2607 / Springman Mid	dle School				orkorder:	-		
Client Sample ID: 2701 Kit E					Matrix	x: Drinl	king Water	
Lab ID: 1604978-005	Date Received: 4/	14/2016 1	4:20 PM	Col	lection Date	e: 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, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/14/2016 3:54 PM	М 35598
Client Sample ID: 2701 Kit F					Matrix	x: Drinl	king Water	
Lab ID: 1604978-006	Date Received: 4/	14/2016 1	4:20 PM	Col	lection Date	e: 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, 1	994				Analyst: jmk	
Lead	7.03	15.0	5.00)	μg/L	1	4/14/2016 3:59 PM	М 35598
Client Sample ID: 2701 Kit G					Matrix	x: Drinl	king Water	
Lab ID: 1604978-007	Date Received: 4/	14/2016 1	4:20 PM	Col	lection Date	e: 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, 1	994				Analyst: jmk	
Lead	ND	15.0	5.00)	μg/L	1	4/14/2016 4:02 PM	М 35598
Client Sample ID: 2701 Kit H					Matrix	x: Drinl	king Water	
Lab ID: 1604978-008	Date Received: 4/	14/2016 1	4:20 PM	Col			2016 10:19 AM	
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	4/14/2016 4:20 PM	M 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

Report **Parameter MCL** Units DF Date Analyzed BatchID Result Qual Limit METALS by ICPMS Method: EPA-200.8-5.4, 1994 Analyst: jmk Lead ND 15.0 5.00 μg/L 4/14/2016 4:23 PM 35598

Client Sample ID: 2701 Kit J Matrix: Drinking Water

Report **Parameter** Result MCL Qual Units **DF** Date Analyzed BatchID Limit METALS by ICPMS Method: EPA-200.8-5.4, 1994 Analyst: jmk ND 5.00 4/15/2016 11:52 AM Lead 15.0 μg/L 35617

Client Sample ID: 2701 Kit K Matrix: Drinking Water

Report **Parameter** Result MCL Units Qual Date Analyzed BatchID Limit METALS by ICPMS Method: EPA-200.8-5.4, 1994 Analyst: jmk Lead ND 15.0 5.00 μg/L 4/14/2016 4:26 PM 35598



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

Prep Dates

Report Date: April 15, 2016 Original

Workorder: 1604978

Client: Hygieneering, Inc.

Project: 2016-2607 / Springman Middle School

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
604978-003A	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
.604978-011A	2701 Kit K	4/13/2016 10:23 AM	-	
			35598 Turbidity Check	4/14/2016 2:33 PM



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Qualifier Definitions

Report Date: April 15, 2016

WorkOrder: 1604978

Qualifiers:

W

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
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

Sample container temperature is out of limit as specified at testcode

Value exceeds Maximum Contaminant Level

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Company Name - 19:4000 105 NC		TURNAROUND	TURNAROUND TIME REQUESTED	ANALYSIS & METHOD REQUESTED	UESTED Page 1 of	
Š		□ Normal ☑ F	RUSH* Charges Approved.	Enter an "X" in box below for request	request PO No. 7614-2657	<i>3</i> 667
City Willew brook 16	Zip (065 9 -7	*Date & Time Needed:	NEXT DAT TAT		Shipping Method	
Phone 630-766-6684 Fax	☐ Fax Report		Normal TAT is 5-7 work days for most work. Rush work must be pre-approved and additional charges apply.		QC Reporting 1	ι 🗆 2 🔲 3
Email Address Vhotmann b hysicalerius. com	SW .	Specify Regulatory Program: (Required)	ram: 🕢 None/Info only		LAB USE ONLY	-
Project ID/Location 2607/ Springman	Middle School	[SRP SDWA	ıd	8 6 1 0 3 i	3 IC
Hoton		☐ 503 Sludge ☐ n	NPDES MWRDGC	8 Lea	supplied by customer?	Yes
7.		☐ Disposal ☐ c	Other section below.	200.	্ Temperature of ্ ু Received Samples	C Page
ż	COLLECTION	GRAB/ CONT/	CONTAINERS	ethod	Samples received within 24 hours of collection?	∏)Yes⊹
Use One Line Per Preservation & Container Type	DATE TIME V	MATRIX COMP. Qty SIZE	SIZE & TYPE PRESERVATIVE	Me	R Condition spile	Spilte测EAB等。
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2 2761- 154-13	16:11			×	10 点 (10 m) (10 m) (1	
3 2701- Kit-C	16:16			×.		
4 2701-4:2-10	10:17			×		
5 2761- Kst-CE	16:17			~		(金) (金) (金)
6 8701- Kit- F	10:18		:	\		
7 2701-124-6	16:19					
8 2761 - Kit- H	16:15					
9 2761- Kit - I	16:30					
10 2701 - KIH - J	12:34					
11 2761- ヒナノス	V 10:23	¢	•			01.7
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MATRIX: Drinking Water (DW), Soil (S), COMMENTS Where Water (WW) Surface Water (SW)	COMMENTS & SPECIAL INSTRUCTIONS:	S:			CONDITION CODES 1. Improper/damaged container/cap	Ttainer/cap
Ground Water (GW), Solid Waste (WA),					2. Improper preservation	
Sludge (U), Wipe (P) CONTAINER: 202.					3. Insufficient sample votume	ume
Glass (G), Plastic (P) PRESERVATIVE:					5. Received past holding time	time
H _E SO ₄ , HCI, HNO ₅ , Methanol (MeOH)					6. Received frezen	5
D	2. Relinquished By	Date	3. Relinquished By	Date 4. Reling	4. Relinquished By Date	te
in lay	Day of the same of	41416				
Ice Img 35	there were the	14:20	Heceived By	Ice Heceived by	o By Ice	78
Submission of samples subject to Terms and Conditions on back.	litions on back.	Rev. 7/20/08	Please fill out this form com	pletely, print, sign & submit wi	Please fill out this form completely, print, sign & submit with samples. Keep a copy for your records.	our records.

CHAIN OF CUSTODY RECORD #

Electronic Version