



October 11, 2016

Via E-mail: mtang@d94.org

Phone: (630) 876-6230

Michael Tang
Supervisor Buildings and Grounds
Community High School District 94
326 Joliet Street
West Chicago, IL 60185

**Re: Domestic Potable Water Sampling for Lead and Copper – Baseline Screening
Hygieneering Project # 2016-2981-EA**

Dear Mr. Tang

Hygieneering, Inc. (Hygieneering) was retained by Community High School District 94 to provide environmental testing and consulting services. Hygieneering conducted proactive potable water quality sampling at schools that comprise the Community High School District 94. The purpose of this study was not intended for water quality compliance monitoring. The purpose of this study was to conduct proactive water quality sampling for informational purposes. Hygieneering conducted the following tasks as part of this project:

Scope of Work

Hygieneering conducted the following services:

- Hygieneering collected water samples from pre-determined potable water fixtures throughout the following schools located within Community High School District 94:
 - West Chicago High School
- One, first draw water sample was collected from each pre-determined water fixture from each of the above referenced schools/buildings. First draw samples were collected after at least a six-hour rest period, where the fixtures and water were not utilized during that time period, as required by the Environmental Protection Agency (US EPA), Illinois Environmental Protection Agency (IEPA) and Illinois Department of Public Health (IDPH). A total of Thirty (30) initial water samples were collected and submitted to a drinking water accredited laboratory for lead and copper analysis. Per request of the client, samples were analyzed on standard seven to ten laboratory business day's turnaround.
- Analytical results were compared to the Environmental Protection Agency's (EPA) National Primary Drinking Water Regulations (NPDWR) or Primary Standards.
- Hygieneering prepared this letter report documenting field activities and laboratory analytical results in comparison to EPA's Primary and/or Secondary Drinking Water Standards.

The following provides detailed information for this water assessment.



Constituent/Parameter Selection, Characteristics and Rationale

Per the request of the Community High School District 94, Hygieneering collected water samples for laboratory analysis for lead and copper. Lead in drinking water is commonly associated with corrosion of plumbing systems or erosion of natural deposits. Copper in drinking water systems can be an indicator of corrosivity of water on piping systems, (source: United States Environmental Protection Agency Drinking Water Contaminants –Standards and Regulations, January 6, 2016).

Community High School District 94 initiated this water sampling project on a proactive basis to assess its water quality.

For schools, the US EPA established a guidance document that utilizes an AL of 0.020 ppm or 20 ppb rather than the US EPA enforceable 15 ppb (source: “3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance” dated 2006. This manual contains recommendations on how to address lead in school drinking water systems; these are suggestions only and are not requirements. Again, unless the facility is a PWS, there is no federal law requiring testing of drinking water in schools.

Hygieneering compared lead to the AL of 15 ppb and copper to the AL of 1300 ppb. Hygieneering compared laboratory analytical results to the Lead-Copper Rule AL for lead at 15 ppb, rather than 20 ppb since the Lead-Copper Rule AL is the US EPA’s regulated concentration for lead whereas the school’s AL is a value based on a guidance document not regulatory requirements. Additionally, 15 ppb is more conservative for comparison.

Reference Standards

Under the Safe Drinking Water Act (SDWA), the US EPA regulates various contaminants for drinking water via the National Primary Drinking Water Regulations (NPDWRs or Primary Standards). NPDWRs or Primary Standards are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants or disinfectants in drinking water. The threshold values of contaminants for drinking water are determined via maximum contaminant levels (MCLs) and maximum contaminant level goals (MCLGs) for the future, or by establishing treatment techniques (TT’s). MCLs are the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible, and are enforceable standards. MCLGs are the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Illinois has adopted all federal MCLs and has also adopted several state-only drinking water standards for which no federal MCL exists. State-only regulated contaminants may be characterized under EPA’s Secondary Standards; however, the Illinois state-only drinking water standards also apply.



For some contaminants, a treatment technique (TT) is established, which is a required process intended to reduce the level of a contaminant in drinking water if the contaminant is above specific concentrations, known as the Action Level (AL). Lead and copper are addressed by what is referred to as the “Lead and Copper Rule,” in which its purpose is to minimize lead and copper levels in drinking water primarily by reducing water corrosivity through treatment techniques. The LCR is a regulation that applies to lead and copper and is required for public water systems (PWS). A PWS is defined as “a public water system provides water for human consumption through pipes or other constructed conveyances to at least 15 service connections or serves an average of at least 25 people for at least 60 days a year. A public water system may be publicly or privately owned.” (source:<https://www.epa.gov/dwreginfo/information-about-public-water-systems>). If the facility is not a PWS, sampling of water and analysis of lead is voluntary. Under the LCR, lead and copper are regulated by a TT based on an established AL to control the corrosiveness of water. For PWS, the US EPA established AL for lead is 0.015 mg/L [i.e. parts per million (ppm)] which is equivalent to 15 ug/L [i.e. parts per billions (ppb)]. The US EPA established AL for copper is 1.3 mg/L [i.e. parts per million (ppm)] which is equivalent to 1300 ug/L [i.e. parts per billions (ppb)].

The US EPA also established the National Secondary Drinking Water Regulations (NSDWR or Secondary Standards), which are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (skin or tooth discoloration), aesthetic effects (undesirable taste, odor, or color), and technical effects (damage to water equipment or reduced effectiveness of treatment for other contaminants) in drinking water. EPA recommends Secondary Standards to water systems but does not require systems to comply; however, states may choose to adopt them as enforceable standards.

Project Activities

Hygieneering collected water samples from various pre-determined fixtures (drinking fountains, sinks, backflow preventers). Specific locations were selected by the Hygieneering Technician. All samples were analyzed for lead and copper. Water samples were collected at the following schools/buildings:

- West Chicago High School

The following sections describe the sampling event for this project.

Sampling Methodology, Analysis & Field Observations

Hygieneering collected water samples from pre-determined water fixtures/locations selected by Hygieneering Technician Kevin Doyle. The water samples were collected in accordance with methods consistent with protocols and strategies developed by the EPA, IEPA, and/or IDPH. One, first draw water sample was collected from each pre-determined water fixture from each of the above referenced schools/building. First draw samples were collected after at least a six-hour rest period, where the fixtures and water were not utilized during that time period, as required by the Environmental Protection Agency (US EPA), Illinois Environmental Protection Agency (IEPA) and Illinois Department of Public Health (IDPH). The first draw samples were collected as soon as the fixtures were turn on; samples were collected from the cold water taps. The water samples were collected using laboratory supplied bottles.



Hygieneering used the following acronyms for the types of fixtures sampled as follows:

Type of fixture sampled:

- Drinking Fountain (DF)
- Hallway drinking fountain (HDF)
- Classroom Sink (CS)
- Bathroom sink (BS)
- Kitchen sink (KS)

Hygieneering sample identification protocol was as follows:

School Address-Sample Number

Example 326- DF3 = West Chicago High School Sample Number Drinking Fountain number 3

September 1, 2016 Sampling Event

Kevin Doyle, Safety and Health Technician of Hygieneering, conducted fieldwork on July 22 - July 29, 2016. Hygieneering collected water samples from thirty (30) pre-determined potable water fixtures from the above referenced schools/buildings. A total of thirty (30) water samples were submitted to Suburban Laboratories, Inc., an accredited laboratory of Geneva, Illinois, for lead and copper analysis in accordance to EPA Method 200.8 on standard laboratory turn around time. Table 1 is an example of the type of information collected for each sample.

Table 1

Equip. Number	Building	Location	Notes (Discoloration, Smells, etc.)	*Hygieneering Sample ID	Location Description sink direction (N,S,E,W; left or right; landmark, etc.
326- DF-8	West Chicago	Floor 2 next to locker 2027	x	326- DF-8	Drinking Fountain
326- DF-9	West Chicago	Girls Locker Room	x	326 DF-9	Drinking Fountain

September 14, 2016 Re-Sampling Event

Kevin Doyle, Safety and Health Technician of Hygieneering, conducted fieldwork on September 14, 2016. Hygieneering collected water samples from one (1) back flow preventer from the above referenced schools/buildings for retesting. A total of one (1) water sample were submitted to Suburban Laboratories, Inc., an accredited laboratory of Geneva, Illinois, for lead and copper analysis in accordance to EPA Method 200.8 on standard laboratory turnaround time.

Sample Results & Interpretation

Laboratory analytical tables for each school/building detailing sampling dates, locations, types of fixtures, laboratory results and other pertinent information for each school are included in **Appendix A**. Laboratory analytical reports are included in **Appendix B**.

In summary, the initial data indicated that 1 of the 30 water fixtures sampled in the building used by students, facility and others are above the EPA's action levels for lead and copper. After the resampling was conducted all of the 93 fixtures are below the EPA's action levels for lead and copper



Conclusions and Recommendations

Hygieneering conducted a proactive evaluation of potable water quality for lead and copper selected by Community High School District 94. This investigation was not intended as a drinking water compliance investigation, but for proactive information purposes only. Lead was compared to the EPA's Primary Drinking Water Standard Action Level of 0.015 parts per million (ppm), which is equivalent to 15 parts per billion (ppb). Copper was compared to the EPA's Primary Drinking Water Standard Action Level of 1.3 parts per million (ppm), which is equivalent to 1300 parts per billion (ppb). The Illinois Environmental Protection Agency's (IEPA) and Illinois Department of Public Health (IDPH) have also adopted these AL for lead and copper.

In summary, the initial and the re-sampling data indicated that only 1 of the 93 water fixtures sampled in the buildings used by students, facility and others are above the EPA's action levels for lead and copper.

1. West Chicago High School Back Flow preventer

As of the resampling all fixtures are below the EPA's action levels for lead and copper

Hygieneering recommends the following for your consideration:

- Continue with proactive measures of periodically evaluating water quality in the Community High School District 94

Report Applicability

Results of this assessment were based on conditions present and observations made at the time of this survey. Additional pertinent information is presented in this report, so the report should be read as a whole. If you have any questions regarding this information, please contact us at (630) 654-2550. Thank you for this opportunity to continue to serve your environmental, health and safety needs.

Respectfully submitted,
Hygieneering, Inc.

Bob Anderson, CSP, CHMM
Director, Environmental Services

John Feller, CIH, CSP
President



APPENDIX A

LABORATORY ANALYTICAL TABLES

West Chicago SD 94 2016-2981-EA Data Sheet

USE ONLY IF RESAMPLING IS PERFORMED

<u>Equip. Number</u>	<u>Building</u>	<u>Location</u>	<u>Notes</u> (Discoloration, Smells, etc.)	<u>*Hygieneering</u> <u>Sample ID</u>	<u>Location Description</u> sink direction (N,S,E,W; left or right; landmark, etc.	<u>Date</u>	<u>Copper Result</u> (ppb)	<u>Copper MCL</u> (ppb)	<u>Lead Result</u> (ppb)	<u>Lead MCL</u> (ppb)	<u>Resample</u> <u>Date</u>	<u>Resampled</u> <u>Copper Result</u> (ppb)	<u>Resampled</u> <u>Lead Result</u> (ppb)
326-1	326 Joliet St.	Cafeteria Kitchen 1st Floor	X	326-1	prep kitchen sink-north wall	9/1/16	ND	1,300	ND	15			
326-2	326 Joliet St.	Cafeteria Kitchen 1st Floor	X	326-2	flex hose-pot filler	9/1/16	ND	1,300	ND	15			
326-3	326 Joliet St.	Lower Level Near Receiving	X	326-3	drain on backflow preventer	9/1/16	ND	1,300	91	15	9/15/2016	ND	ND
326-4	326 Joliet St.	Room 106 Inside-1st Floor	X	326-4	sink	9/1/16	282	1,300	ND	15			
326-5	326 Joliet St.	Outside Room 106-1st Floor	X	326-5	drinking fountain	9/1/16	443	1,300	ND	15			
326-6	326 Joliet St.	Room 115M-1st Floor	X	326-6	kitchen sink	9/1/16	ND	1,300	ND	15			
326-7	326 Joliet St.	Girl's P.E. Locker Room -1st Floor	X	326-7	drinking fountain A	9/1/16	131	1,300	ND	15			
326-8	326 Joliet St.	Boy's P.E. Locker Room-1st Floor	X	326-8	drinking fountain A	9/1/16	ND	1,300	ND	15			
326-9	326 Joliet St.	Bishop Gym South Wall-1st Floor	X	326-9	drinking fountain	9/1/16	123	1,300	ND	15			
326-10	326 Joliet St.	Across From Restroom 136-1st Floor	discolored	326-10	drinking fountain B	9/1/16	1090	1,300	ND	15			
326-11	326 Joliet St.	Across From Room 151-1st Floor	X	326-11	backflow preventer	9/1/16	234	1,300	ND	15			
326-12	326 Joliet St.	Field House South Wall-1st Floor	X	326-12	drinking fountain	9/1/16	179	1,300	ND	15			
326-13	326 Joliet St.	Field House Wrestling Room-1st Floor	X	326-13	drinking fountain	9/1/16	ND	1,300	ND	15			
326-14	326 Joliet St.	Outside Room C117-1st Floor	X	326-14	drinking fountain B	9/1/16	140	1,300	ND	15			
326-15	326 Joliet St.	Pool West Wall-1st Floor	X	326-15	drinking fountain	9/1/16	ND	1,300	ND	15			
326-16	326 Joliet St.	Entrance E-1st Floor	X	326-16	drinking fountain A	9/1/16	ND	1,300	ND	15			
326-17	326 Joliet St.	Next to Room 162-1st Floor	X	326-17	drinking fountain A	9/1/16	ND	1,300	ND	15			
326-18	326 Joliet St.	North End of Victory Ln.-1st Floor	X	326-18	backflow preventer	9/1/16	ND	1,300	ND	15			
326-19	326 Joliet St.	North End of Victory Ln.-1st Floor	X	326-19	drinking fountain A	9/1/16	128	1,300	ND	15			
326-20	326 Joliet St.	Boy's Athletic Locker Room-1st Floor	X	326-20	drinking fountain B	9/1/16	ND	1,300	ND	15			

West Chicago SD 94 2016-2981-EA Data Sheet

USE ONLY IF RESAMPLING IS PERFORMED

<u>Equip. Number</u>	<u>Building</u>	<u>Location</u>	<u>Notes</u> (Discoloration, Smells, etc.)	<u>*Hygieneering</u> <u>Sample ID</u>	<u>Location Description</u> sink direction (N,S,E,W; left or right; landmark, etc.	<u>Date</u>	<u>Copper Result</u> (ppb)	<u>Copper MCL</u> (ppb)	<u>Lead Result</u> (ppb)	<u>Lead MCL</u> (ppb)	<u>Resample</u> <u>Date</u>	<u>Resampled</u> <u>Copper Result</u> (ppb)	<u>Resampled</u> <u>Lead Result</u> (ppb)
326-21	326 Joliet St.	170 Girl's Athletic Locker Room-1st Floor	X	326-21	drinking fountain	9/1/16	119	1,300	ND	15			
326-22	326 Joliet St.	Room 165-1st Floor	X	326-22	drinking fountain	9/1/16	172	1,300	ND	15			
326-23	326 Joliet St.	Across From Room 192-1st Floor	X	326-23	backflow preventer	9/1/16	102	1,300	ND	15			
326-24	326 Joliet St.	Across From Room 192-1st Floor	X	326-24	C	9/1/16	146	1,300	ND	15			
326-25	326 Joliet St.	Room 220 NW Corner-2nd Floor	X	326-25	drinking fountain	9/1/16	197	1,300	ND	15			
326-26	326 Joliet St.	Integrity Intersection-2nd Floor	X	326-26	drinking fountain B	9/1/16	155	1,300	ND	15			
326-27	326 Joliet St.	Nucleus-2nd Floor	X	326-27	backflow preventer	9/1/16	148	1,300	ND	15			
326-28	326 Joliet St.	Next to Room 305-1st Floor	X	326-28	drinking fountain	9/1/16	121	1,300	ND	15			
326-29	326 Joliet St.	Football Field	X	326-29	drinking fountain	9/1/16	112	1,300	ND	15			
326-30	326 Joliet St.	Concession Stand 1st Floor	X	326-30	kitchen sink	9/1/16	ND	1,300	ND	15			



APPENDIX B

LABORATORY ANALYTICAL REPORTS

SUBURBAN LABORATORIES, Inc.



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

September 26, 2016

Bob Anderson
Hygieneering, Inc.
7575 Plaza Court
Willowbrook, IL 60521

Workorder: 1609D57

TEL: (630) 654-2550

FAX:

RE: 2016-2981 Drinking Water Lead and Copper Analysis

Dear Bob Anderson:

Suburban Laboratories, Inc. received 1 sample(s) on 9/19/2016 for the analyses presented in the following report.

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
Project Manager
708-544-3260 ext 214
pat@suburbanlabs.com





Suburban Laboratories, Inc.

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

PREP DATES REPORT

Client: Hygieneering, Inc.
Project: 2016-2981 Drinking Water Lead a

Report Date: September 26, 2016
Lab Order: 1609D57

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1609D57-001A	9/15/2016 9:30:00 A	40340	TURB_METALS	Turbidity Check		9/23/2016



Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
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 compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.



SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Ste 150, Geneva, IL 60134

Tel. 708.544.3260

Fax: 708.544.8587

Toll Free: 800.783.LABS

www.suburbanlabs.com

CHAIN OF CUSTODY RECORD #

135311

Company Name: **HYGIENEBRIALC**
Company Address: **7675 PLAZA CT.**
City: **WILLOW BROOK** State: **IL.** ZIP: **630-654-2550**

Phone: **630-654-2550** Fax:
Email Address:
Project ID / Location: **2016-2981**

Project Manager (Report to): **BOB ANDERSON**
Sample Collector(s) Name: **KEVIN DOYLE**

TURNAROUND TIME REQUESTED
 Normal RUSH*
*Additional Rush Charges Approved

Date & Time Needed: _____
Normal TAT is specified on the price quotation or fee schedule. 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

PG
UV
XX

Page 1 of 3
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY
SUI ORDER # **1609057**
Sample containers supplied by customer? Yes
Temperature of Received Samples **3** °C
Samples received the same day as collection? Yes

SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS QTY SIZE & TYPE	PRESERVATIVE	Condition	LAB #
	DATE	TIME						
1 326-3-E	9/15/16	9:30	DW	1	8oz. P			14
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

COMMENTS & SPECIAL INSTRUCTIONS:

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINERS:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H₂SO₄, HCl, HNO₃, Methanol (MeOH), NaOH, Sodium Bisulfate (NaSP), Na₂Th₂S

1. Requisitioned By: *[Signature]* Date: 9/15/16

2. Requisitioned By: *[Signature]* Date: 9/19/16

3. Requisitioned By: _____ Date: _____

4. Requisitioned By: _____ Date: _____

5. Received By: *[Signature]* Time: 13:20p

6. Received By: *[Signature]* Time: 14:15p

7. Received By: _____ Time: _____

8. Received By: _____ Time: _____

9. Received By: _____ Time: _____

10. Received By: _____ Time: _____

11. Received By: _____ Time: _____

12. Received By: _____ Time: _____

Submitter of samples subject to Terms and Conditions on back. Rev# 07/20/08 Write-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.



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

September 08, 2016

Bob Anderson
Hygieneering, Inc.
7575 Plaza Court
Willowbrook, IL 60521

Workorder: 1609097

TEL: (630) 654-2550

FAX:

RE: 2016-2981

Dear Bob Anderson:

Suburban Laboratories, Inc. received 30 sample(s) on 9/2/2016 for the analyses presented in the following report.

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
Logistics Manager
708-544-3260 ext 214
pat@suburbanlabs.com





Client: Hygieneering, Inc.

Date: September 08, 2016

Project: 2016-2981

PO #:

WorkOrder: 1609097

QC Level:

Temperature of samples upon receipt at SLI: 6 C

Chain of Custody #: 135322

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 radiological results are reported to the 95% confidence level.

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:

1609097-001A - 030A was preserved in the lab.



Suburban Laboratories, Inc.

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

Laboratory Results

Client ID: Hygieneering, Inc.

Report Date: September 08, 2016

Project Name: 2016-2981

Workorder: 1609097

Client Sample ID: 326-1

Matrix: DRINKING WATER

Lab ID: 1609097-001

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:06 AM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 1:58 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 1:58 AM	39843

Client Sample ID: 326-2

Matrix: DRINKING WATER

Lab ID: 1609097-002

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:11 AM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 2:00 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:00 AM	39843

Client Sample ID: 326-3

Matrix: DRINKING WATER

Lab ID: 1609097-003

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:17 AM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: mjs	
Copper	ND	1,300	100		µg/L	1	09/08/2016 12:20 PM	39843
Lead	91.0	15.0	5.00	*	µg/L	1	09/08/2016 12:20 PM	39843

Client Sample ID: 326-4

Matrix: DRINKING WATER

Lab ID: 1609097-004

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:21 AM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	282	1,300	100		µg/L	1	09/07/2016 2:03 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:03 AM	39843



Suburban Laboratories, Inc.

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

Laboratory Results

Client ID: Hygieneering, Inc.

Report Date: September 08, 2016

Project Name: 2016-2981

Workorder: 1609097

Client Sample ID: 326-5

Matrix: DRINKING WATER

Lab ID: 1609097-005

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:23 AM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	443	1,300	100		µg/L	1	09/07/2016 2:05 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:05 AM	39843

Client Sample ID: 326-6

Matrix: DRINKING WATER

Lab ID: 1609097-006

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:26 AM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 2:07 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:07 AM	39843

Client Sample ID: 326-7

Matrix: DRINKING WATER

Lab ID: 1609097-007

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:30 AM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	131	1,300	100		µg/L	1	09/07/2016 2:15 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:15 AM	39843

Client Sample ID: 326-8

Matrix: DRINKING WATER

Lab ID: 1609097-008

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:33 AM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 2:17 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:17 AM	39843



Suburban Laboratories, Inc.

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

Laboratory Results

Client ID: Hygieneering, Inc.

Report Date: September 08, 2016

Project Name: 2016-2981

Workorder: 1609097

Client Sample ID: 326-9

Matrix: DRINKING WATER

Lab ID: 1609097-009

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:35 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	123	1,300	100		µg/L	1	09/07/2016 2:20 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:20 AM	39843

Client Sample ID: 326-10

Matrix: DRINKING WATER

Lab ID: 1609097-010

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:38 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: mjs	
Copper	1,090	1,300	100		µg/L	1	09/08/2016 12:22 PM	39843
Lead	ND	15.0	5.00		µg/L	1	09/08/2016 12:22 PM	39843

Client Sample ID: 326-11

Matrix: DRINKING WATER

Lab ID: 1609097-011

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:41 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	234	1,300	100		µg/L	1	09/07/2016 2:24 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:24 AM	39843

Client Sample ID: 326-12

Matrix: DRINKING WATER

Lab ID: 1609097-012

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:45 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	179	1,300	100		µg/L	1	09/07/2016 2:26 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:26 AM	39843



Suburban Laboratories, Inc.

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

Laboratory Results

Client ID: Hygieneering, Inc.

Report Date: September 08, 2016

Project Name: 2016-2981

Workorder: 1609097

Client Sample ID: 326-13

Matrix: DRINKING WATER

Lab ID: 1609097-013

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:48 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 2:28 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:28 AM	39843

Client Sample ID: 326-14

Matrix: DRINKING WATER

Lab ID: 1609097-014

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:50 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	140	1,300	100		µg/L	1	09/07/2016 2:30 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:30 AM	39843

Client Sample ID: 326-15

Matrix: DRINKING WATER

Lab ID: 1609097-015

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:53 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 2:38 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:38 AM	39843

Client Sample ID: 326-16

Matrix: DRINKING WATER

Lab ID: 1609097-016

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:56 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 2:39 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:39 AM	39843



Suburban Laboratories, Inc.

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

Laboratory Results

Client ID: Hygieneering, Inc.

Report Date: September 08, 2016

Project Name: 2016-2981

Workorder: 1609097

Client Sample ID: 326-17

Matrix: DRINKING WATER

Lab ID: 1609097-017

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 11:58 AM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 2:41 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:41 AM	39843

Client Sample ID: 326-18

Matrix: DRINKING WATER

Lab ID: 1609097-018

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:00 PM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 2:43 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:43 AM	39843

Client Sample ID: 326-19

Matrix: DRINKING WATER

Lab ID: 1609097-019

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:02 PM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	128	1,300	100		µg/L	1	09/07/2016 2:49 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:49 AM	39843

Client Sample ID: 326-20

Matrix: DRINKING WATER

Lab ID: 1609097-020

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:04 PM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 2:51 AM	39843
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:51 AM	39843



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Laboratory Results

Client ID: Hygieneering, Inc.

Report Date: September 08, 2016

Project Name: 2016-2981

Workorder: 1609097

Client Sample ID: 326-21

Matrix: DRINKING WATER

Lab ID: 1609097-021

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:08 PM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	119	1,300	100		µg/L	1	09/07/2016 2:53 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 2:53 AM	39844

Client Sample ID: 326-22

Matrix: DRINKING WATER

Lab ID: 1609097-022

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:12 PM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	172	1,300	100		µg/L	1	09/07/2016 3:00 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 3:00 AM	39844

Client Sample ID: 326-23

Matrix: DRINKING WATER

Lab ID: 1609097-023

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:15 PM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	102	1,300	100		µg/L	1	09/07/2016 3:02 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 3:02 AM	39844

Client Sample ID: 326-24

Matrix: DRINKING WATER

Lab ID: 1609097-024

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:16 PM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	146	1,300	100		µg/L	1	09/07/2016 3:04 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 3:04 AM	39844



Suburban Laboratories, Inc.

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

Laboratory Results

Client ID: Hygieneering, Inc.

Report Date: September 08, 2016

Project Name: 2016-2981

Workorder: 1609097

Client Sample ID: 326-25

Matrix: DRINKING WATER

Lab ID: 1609097-025

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:20 PM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	197	1,300	100		µg/L	1	09/07/2016 3:06 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 3:06 AM	39844

Client Sample ID: 326-26

Matrix: DRINKING WATER

Lab ID: 1609097-026

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:27 PM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	155	1,300	100		µg/L	1	09/07/2016 3:08 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 3:08 AM	39844

Client Sample ID: 326-27

Matrix: DRINKING WATER

Lab ID: 1609097-027

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:31 PM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	148	1,300	100		µg/L	1	09/07/2016 3:10 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 3:10 AM	39844

Client Sample ID: 326-28

Matrix: DRINKING WATER

Lab ID: 1609097-028

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:36 PM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	121	1,300	100		µg/L	1	09/07/2016 3:12 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 3:12 AM	39844



Suburban Laboratories, Inc.

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Laboratory Results

Client ID: Hygieneering, Inc.

Report Date: September 08, 2016

Project Name: 2016-2981

Workorder: 1609097

Client Sample ID: 326-29

Matrix: DRINKING WATER

Lab ID: 1609097-029

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:42 PM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	112	1,300	100		µg/L	1	09/07/2016 3:16 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 3:16 AM	39844

Client Sample ID: 326-30

Matrix: DRINKING WATER

Lab ID: 1609097-030

Date Received: 09/02/2016 11:14 AM

Collection Date: 09/01/2016 12:44 PM

Parameter	Result	Report		Qual.	Units	Dilution		Batch ID
		MCL	Limit			Factor	Date Analyzed	
METALS BY ICPMS								
				Method: EPA-200.8-Rev 5.4, 1994			Analyst: jmk	
Copper	ND	1,300	100		µg/L	1	09/07/2016 3:23 AM	39844
Lead	ND	15.0	5.00		µg/L	1	09/07/2016 3:23 AM	39844



Suburban Laboratories, Inc.

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

PREP DATES REPORT

Client: Hygieneering, Inc.
Project: 2016-2981

Report Date: September 08, 2016
Lab Order: 1609097

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1609097-001A	9/1/2016 11:06:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-002A	9/1/2016 11:11:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-003A	9/1/2016 11:17:00 A	39867	ICPMS_DWPR	Drinking Water Prep		9/7/2016
		39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-004A	9/1/2016 11:21:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-005A	9/1/2016 11:23:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-006A	9/1/2016 11:26:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-007A	9/1/2016 11:30:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-008A	9/1/2016 11:33:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-009A	9/1/2016 11:35:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-010A	9/1/2016 11:38:00 A	39867	ICPMS_DWPR	Drinking Water Prep		9/7/2016
		39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-011A	9/1/2016 11:41:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-012A	9/1/2016 11:45:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-013A	9/1/2016 11:48:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-014A	9/1/2016 11:50:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-015A	9/1/2016 11:53:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-016A	9/1/2016 11:56:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-017A	9/1/2016 11:58:00 A	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-018A	9/1/2016 12:00:00 P	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-019A	9/1/2016 12:02:00 P	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-020A	9/1/2016 12:04:00 P	39843	TURB_METALS	Turbidity Check		9/6/2016
1609097-021A	9/1/2016 12:08:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016
1609097-022A	9/1/2016 12:12:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016
1609097-023A	9/1/2016 12:15:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016
1609097-024A	9/1/2016 12:16:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016
1609097-025A	9/1/2016 12:20:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016
1609097-026A	9/1/2016 12:27:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016
1609097-027A	9/1/2016 12:31:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016
1609097-028A	9/1/2016 12:36:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016
1609097-029A	9/1/2016 12:42:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016
1609097-030A	9/1/2016 12:44:00 P	39844	TURB_METALS	Turbidity Check		9/6/2016



Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
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 compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.



SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Ste 150, Geneva, IL 60134

Tel: 708.544.9260

Fax: 708.544.8687

Toll Free: 800.783.LABS

www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

135322

Company Name: HYGIENEERING

Company Address: 7575 Plaza G.

City: WILLOW BROOK State: IL Zip: 630-654-2550

Phone: 630-654-2550 Fax: 630-654-2550

Email Address: BAUNDERSON@HYGIENEERING.COM Final Report will be emailed

Project ID / Location: 2016-2981

Project Manager (Report to): BOB ANDERSON

Sample Collector(s) Name: KEVIN DOYLE

Normal Rush* *Additional Rush Charges Approved.

Normal TAT is specified on the price quotation or fee schedule. 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.

TURNAROUND TIME REQUESTED

DATE TIME MATRIX GRAB/COMP. QTY CONTAINERS SIZE & TYPE PRESERVATIVE

1 326-1 9.1.16 11:06 DW 1 8oz P X X

2 326-2 9.1.16 11:11 DW 1 8oz P X X

3 326-3 9.1.16 11:17 DW 1 8oz P X X

4 326-4 9.1.16 11:21 DW 1 8oz P X X

5 326-5 9.1.16 11:23 DW 1 8oz P X X

6 326-6 9.1.16 11:26 DW 1 8oz P X X

7 326-7 9.1.16 11:30 DW 1 8oz P X X

8 326-8 9.1.16 11:33 DW 1 8oz P X X

9 326-9 9.1.16 11:35 DW 1 8oz P X X

10 326-10 9.1.16 11:38 DW 1 8oz P X X

11 326-11 9.1.16 11:41 DW 1 8oz P X X

12 326-12 9.1.16 11:45 DW 1 8oz P X X

COMMENTS & SPECIAL INSTRUCTIONS:

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

ANALYSIS & METHOD REQUESTED

Page 1 of 3

Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

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Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

Submission of samples subject to Terms and Conditions on back. Rev. 07/2008



SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Ste 150, Geneva, IL 60134

Tel. 708.544.3260

Fax: 708.544.8587

Toll Free: 800.783.LABS

www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

#

135322

Company Name: **HYGIENEERINC**

Company Address: **7575 Plaza G.**

City: **WILLOW BROOK** State: **IL** Zip: **60134**

Phone: **630-654-2550** Fax: **630-654-2550**

Email Address: **BANDERSON@HYGIENEERINC.COM** Final Report will be emailed

Project ID / Location: **2016-2981**

Project Manager (Report to): **BOB ANDERSON**

Sample Collector(s) Name: **KEVIN DOYLE**

Sample Collector(s) Name: **KEVIN DOYLE**

Use One Line Per Preservation & Container Type

SAMPLE IDENTIFICATION	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS QTY	SIZE & TYPE	PRESERVATIVE	ANALYSIS & METHOD REQUESTED
	DATE	TIME						
1	326-13	9/11/16	11:48	DN		1 8oz P		P C
2	326-14	9/11/16	11:50	DN		1 8oz P		P C
3	326-15	9/11/16	11:53	DN		1 8oz P		P C
4	326-16	9/11/16	11:56	DN		1 8oz P		P C
5	326-17	9/11/16	11:58	DN		1 8oz P		P C
6	326-18	9/11/16	12:00	DN		1 8oz P		P C
7	326-19	9/11/16	12:02	DN		1 8oz P		P C
8	326-20	9/11/16	12:04	DN		1 8oz P		P C
9	326-21	9/11/16	12:08	DN		1 8oz P		P C
10	326-22	9/11/16	12:12	DN		1 8oz P		P C
11	326-23	9/11/16	12:15	DN		1 8oz P		P C
12	326-24	9/11/16	12:16	DN		1 8oz P		P C

COMMENTS & SPECIAL INSTRUCTIONS:

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 (MeOH), NaOH, Sodium Bisulfate (NaBS), NaThe

1. Relinquished By: [Signature] Date: 9/2/16

2. Relinquished By: [Signature] Date: 9/2/16

3. Relinquished By: [Signature] Date: 9/2/16

4. Relinquished By: [Signature] Date: 9/2/16

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

Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

Received By: [Signature] Date: 9/2/16

Submission of samples subject to Terms and Conditions on back

Rev. 07/20/08

White-Original Pink-Sampler Copy



SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Ste 150, Geneva, IL 60134

Tel. 708.544.3260 Fax: 708.544.8587

CHAIN OF CUSTODY RECORD

135322

Company Name: **HYGIENEERINC**

Company Address: **7575 PLAZA CT.**

City: **WILLOW BROOK** State: **IL** Zip: **630-654-2550**

Phone: **630-654-2550** Fax: Fax Report

Email Address: **BANDERSON@HYGIENEERINC.COM** Final Report will be emailed

Project ID / Location: **2016-2981**

Project Manager (Report to): **BOB ANDERSON**

Sample Collector(s) Name: **KEVIN DOYLE**

TURNAROUND TIME REQUESTED
 Normal RUSH* *Additional Rush Charges Approved

Date & Time Needed: _____
Normal TAT is specified on the price quotation or fee schedule. 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

Page 3 of 3
PO No. _____ Page 15 of _____
Shipping Method _____
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY
SIU ORDER NO. **1609097**
Sample containers supplied by customer? Yes No
Temperature of Received Samples _____
Samples received the same day as collection? Yes No

SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS QTY SIZE & TYPE	PRESERVATIVE	P	C	E	D	R	Condition	Soil	LAB #
	DATE	TIME												
1 326-25	9/11/16	12:30	DW		1 8oz P		X	X						254
2 326-26	9/11/16	12:27	DW		1 8oz P		X	Y						
3 326-27	9/11/16	12:31	DW		1 8oz P		X	Y						
4 326-28	9/11/16	12:36	DW		1 8oz P		X	X						
5 326-29	9/11/16	12:42	DW		1 8oz P		X	X						
6 326-30	9/11/16	12:44	DW		1 8oz P		X	X						
7 326--	9/11/16		DW		1 8oz P		X	X						
8 326--	9/11/16		DW		1 8oz P		X	X						
9 326--	9/11/16		DW		1 8oz P		X	X						
10 326--	9/11/16		DW		1 8oz P		Y	Y						
11 326--	9/11/16		DW		1 8oz P		X	X						
12 326--	9/11/16		DW		1 8oz P		X	X						

COMMENTS & SPECIAL INSTRUCTIONS:

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINERS: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H₂SO₄, HCl, HNO₃, Methanol (MeOH), NaOH, Sodium Bisulfite (NaB), NaThio

CONDITION CODES:
1. Improperly damaged container/leak
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: *[Signature]* Date: **9/2/16** Time: **9:15A**

2. Relinquished By: *[Signature]* Date: **9/2/16** Time: **11:44A**

3. Relinquished By: _____ Date: _____ Time: _____

4. Relinquished By: _____ Date: _____ Time: _____

Received By: Ice present Time: _____

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