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

January 05, 2018

Workorder: 1712F41

Terry McGhee Du Page Water Commission 600 E. Butterfield Road Elmhurst, IL 60126-4642

TEL: (630) 340-0100 FAX: (630) 340-0120 RE: Non-Compliance Drinking Water Analysis

Dear Terry McGhee:

Suburban Laboratories, Inc. received 1 sample(s) on 12/20/2017 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,

Panue Rodyen

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





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

Client: Du Page Water Commission Project: Non-Compliance Drinking Water Analysis WorkOrder: 1712F41 Temperature of samples upon receipt at SLI: 3 C Date: January 05, 2018 PO #: MW001 QC Level: LEVEL I Chain of Custody #: ELEC

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:

1712F41-001A was preserved in the lab.



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Laboratory Results

Client ID: Du Page Water Commission

Project Name: Non-Compliance Drinking Water Analysis

Report Date: January 05, 2018 Workorder: 1712F41

Client Sample ID: 1-6

Lab ID: 1712F41-001

Date Received: 12/20/2017 2:10 PM

Matrix: DRINKING WATER Collection Date: 12/20/2017 1:30 PM

Parameter	Result		Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID		
METALS BY ICP			Method: EPA-200.7-Rev 4.4,1994				Analyst: src			
Calcium	32,500		50.0		µg/L	1	12/21/2017 2:53 PM	49522		
Hardness, Ca/Mg (As CaCO3)	126,000		0		µg/L	1	12/21/2017 2:53 PM	49522		
Iron	ND	1,000	50.0		µg/L	1	12/21/2017 2:53 PM	49522		
Magnesium	10,800		50.0	С	µg/L	1	12/21/2017 2:53 PM	49522		
Sodium	7,750		300		µg/L	1	12/21/2017 2:53 PM	49522		
METALS BY ICPMS			Method	: EPA-200.8-Rev \$	5.4, 1994		Analyst: mjs			
Antimony	ND	6.00	2.00		µg/L	1	01/05/2018 12:30 PM	49522		
Arsenic	0.622	10.0	0.500		µg/L	1	01/05/2018 12:30 PM	49522		
Barium	23.5	2,000	5.00		µg/L	1	01/05/2018 12:30 PM	49522		
Beryllium	ND	4.00	1.00		µg/L	1	01/05/2018 12:30 PM	49522		
Cadmium	ND	5.00	3.00		µg/L	1	01/05/2018 12:30 PM	49522		
Chromium	ND	100	5.00		µg/L	1	01/05/2018 12:30 PM	49522		
Copper	ND	1,300	100		µg/L	1	01/05/2018 12:30 PM	49522		
Lead	ND	15.0	2.00		µg/L	1	01/05/2018 12:30 PM	49522		
Mercury	ND	2.00	0.100		µg/L	1	01/05/2018 12:30 PM	49522		
Selenium	ND	50.0	5.00		µg/L	1	01/05/2018 12:30 PM	49522		
Thallium	ND	2.00	2.00		µg/L	1	01/05/2018 12:30 PM	49522		
VOLATILE ORGANIC COMPOUNDS (REGULATED)		Method	: EPA-524.2-Rev I	R4.1		Analyst: SJ			
Benzene	ND	5.00	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
Carbon tetrachloride	ND	5.00	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
Chlorobenzene	ND	100	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
1,4-Dichlorobenzene	ND	75.0	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
1,2-Dichlorobenzene	ND	600	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
1,2-Dichloroethane	ND	5.00	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
1,1-Dichloroethene	ND	7.00	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
cis-1,2-Dichloroethene	ND	70.0	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
trans-1,2-Dichloroethene	ND	100	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
1,2-Dichloropropane	ND	5.00	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
Ethylbenzene	ND	700	0.500		µg/L	1	12/22/2017 10:56 AM	R91411		
Methylene chloride	ND	5.00	0.500		μg/L	1	12/22/2017 10:56 AM	R91411		
Styrene	ND	100	0.500		μg/L	1	12/22/2017 10:56 AM	R91411		
Tetrachloroethene	ND	5.00	0.500		μg/L	1	12/22/2017 10:56 AM	R91411		
Toluene	ND	1,000	0.500		μg/L	1	12/22/2017 10:56 AM	R91411		
1,2,4-Trichlorobenzene	ND	70.0	0.500		μg/L	1	12/22/2017 10:56 AM	R91411		



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Date Received: 12/20/2017 2:10 PM

Laboratory Results

Client ID: Du Page Water Commission

Project Name: Non-Compliance Drinking Water Analysis

Client Sample ID: 1-6

Lab ID: 1712F41-001

Report Date: January 05, 2018

Workorder: 1712F41

Matrix: DRINKING WATER Collection Date: 12/20/2017 1:30 PM

	Report				Dilution			
Parameter	Result	MCL	Limit	Qual.	Units	Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS (REGI	JI ATED)		Method:	EPA-524.2-Rev	[,] R4.1		Analyst: SJ	
Trichloroethene		5.00 0.500			µg/L	1	12/22/2017 10:56 AM	R91411
1,1,1-Trichloroethane	ND	200	0.500			1	12/22/2017 10:56 AM	R91411
1,1,2-Trichloroethane	ND	5.00	0.500 µg/L		1	12/22/2017 10:56 AM	R91411	
Vinyl chloride	ND	2.00	0.500		μg/L	1	12/22/2017 10:56 AM	R91411
m,p-Xylene	ND		0.500		μg/L	1	12/22/2017 10:56 AM	R91411
o-Xylene	ND		0.500		μg/L	1	12/22/2017 10:56 AM	R91411
Total Xylenes	ND	10,000	0.500		μg/L	1	12/22/2017 10:56 AM	R91411
Internal Quality Control Compounds					10			
SS: 1,2-Dichlorobenzene-d4	103		70-130		%Rec	1	12/22/2017 10:56 AM	R91411
SS: 4-Bromofluorobenzene	99.8		70-130		%Rec	1	12/22/2017 10:56 AM	R91411
VOLATILE ORGANIC COMPOUNDS (UNRE	EGULATED)		Method:	EPA-524.2-Rev	4.1, 1995		Analyst: SJ	
Methyl tert-butyl ether	ND		0.500		µg/L	1	12/22/2017 10:56 AM	R91411
Internal Quality Control Compounds	ND		0.500		µg/∟	I	12/22/2017 10.30 AW	131411
SS: 1,2-Dichlorobenzene-d4	103		70-130		%Rec	1	12/22/2017 10:56 AM	R91411
SS: 4-Bromofluorobenzene	99.8		70-130		%Rec	1	12/22/2017 10:56 AM	R91411
PESTICIDE COMPOUNDS	00.0			EPA-525.2-Rev			Analyst: mn	Rotert
FESTICIDE COMPOUNDS			Wothou.		2.0, 1000		Analyst. IIII	
Alachlor	ND	2.00	0.200		µg/L	1	12/29/2017 9:16 AM	49591
Atrazine	ND	3.00	0.200		μg/L	1	12/29/2017 9:16 AM	49591
Simazine	ND	4.00	0.200		µg/L	1	12/29/2017 9:16 AM	49591
Internal Quality Control Compounds								
SS: 1,3-Dimethyl-2-nitrobenzene	96.6		60.3-130		%Rec	1	12/29/2017 9:16 AM	49591
SS: Perylene-d12	87.3		26-125		%Rec	1	12/29/2017 9:16 AM	49591
SS: Triphenyl phosphate	108		50.9-181		%Rec	1	12/29/2017 9:16 AM	49591
ALKALINITY, TOTAL			Method:	SM-2320B-Rev	21st Ed, 1997		Analyst: RH	
Alkalinity, Total(As CaCO3)	102		20.0		mg/L CaCO3	1	12/28/2017 3:21 PM	R91463
TOTAL NITRATES (NITRATE+NITRITE)			Method:		-		Analyst: pel	
Total Nitrates (as N)		10.0	0		mall	1	01/04/2018 4:15 DM	D01507
101a1 MILIAICS (03 M)	ND	10.0	0		mg/L	1	01/04/2018 4:15 PM	R91597
PH METHOD 9041A (IN LABORATORY)			Method:	EPA-9041A-Re	v 1, Jul-92		Analyst: pel	
рН	6.0			V c	pH Units	1	01/04/2018 4:20 PM	R91598
COLIFORM, PRESENCE-ABSENCE-COLILERT			Method:	SM-9223B-PA-	Rev 1997 Rev. C	Inline	Analyst: MMM	



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Laboratory Results

Client ID: Du Page Water Commission Project Name: Non-Compliance Drinking Water Analysis

Report Date: January 05, 2018

Workorder: 1712F41

Client Sample ID: 1-6

Lab ID: 1712F41-001

Matrix: DRINKING WATER Collection Date: 12/20/2017 1:30 PM

Parameter Resu		Report MCL Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
COLIFORM, PRESENCE-ABSENC	E-COLILERT	Method:	SM-9223B-PA-F	Rev 1997 Rev. (Online	Analyst: MMM		
E. coli	0	0		CFU/100ml	1	12/20/2017 4:40 PM	49506	
Total Coliform	0	0		CFU/100ml	1	12/20/2017 4:40 PM	49506	
TURBIDITY		Method:	EPA-180.1-Rev	2.0, Aug-93		Analyst: src		
Turbidity	0.390	0.100	с	NTU	1	12/20/2017 5:00 PM	R91308	

Date Received: 12/20/2017 2:10 PM

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

PREP DATES REPORT

Client: DuPage Water Commission

Project: Non-Compliance Drinking Water

Report Date: January 05, 2018 Lab Order: 1712F41

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1712F41-001A	12/20/2017 1:30:00 P	49522	TURB_METALS	Turbidity Check		12/21/2017
		49701	TURB_METALS	Turbidity Check		1/4/2018
1712F41-001D		49506	T_COLI_PR	Total Coliform Prep		12/20/2017
1712F41-001F		49591	525_DW_PR	525 Prep Code		12/28/2017



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Qualifier Definitions

WO#: **1712F41** Date: **1/5/2018**

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level
В	Analyte detected in the associated Method Blank
С	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
Н	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
Ν	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
Р	Present
Q	Accreditation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
Т	Analyte detected in sample trip blank
V	EPA requires field analysis/filtration. Lab analysis would be considered past hold time.

			~ 700 544 0507		F CUSTODY R		# Electroni	c Version
Company Name			<: 708.544.8587	OII Free: 800.783.L			Page of	
Company Name DUPAGE WATER	OMM (35/0W			Adapti and Europ	ANALYSIS & METHOD R			$\frac{\infty}{2}$
Company Acciess 600 E BUTTER	Zin	× ···		Charges Approved.	Enter an "X" in box below			<u>00</u> %
City ELMHURST State	60126		Time Needed:	<u>.</u>	H			\mathbf{Pa}
Phone Fax 630-834-0100 630-83	4-0120 -Fax R	eport	AT is 5-7 work days for most v pre-approved and additional		KAGE		QC Reporting Level	1 2 3
Email Address Mcghee @ dpwc		Specify	(Regulatory Program: (Regulred)	None/Info only			LAB USE	ONLY
Project ID / Location Safe Water Test Package	v			SDWA	TESTP	S	LIPT PF	11
Project Manager (Report to) TERRY MC		50	03 Sludge 📃 NPDES	MWRDGC	R T		Sample containers suppiled by customer	
Sample Collector(s) JASon U		Di Di	isposal 🗍 Other	Please specify in comment action below.	WATE		Temperature of Received Samples	3 °c
JITSON O				ecion below.			Samples received with	
SAMPLE IDENTIFICATION	COLLECTION	GR.	a la su farma a su		SAFE		24 hours of collection	
is- One Like Per Preservation & Container Type		MATRIX COL	1				R Condition	Split: LAB #
1 42	12/20/17 13:05		G 1 1 Liter Plast		X			
2 #2	12/20/17 13:10	DW C	G 2 40 mL Glass \	ial HCl	X			Cab
3 #3	12/20/17 13:15	DW C	G 2 1 Liter Amber G	ass Na2SO3/HCl	X			<i>w</i> IF
4 #4	12/20/17 13:20	DW C	G 1 8 oz Plasti	Unpreserved	X			OUD
5 #5	12/20/17 13:25	DW C	G 1 I Liter Plast	ic Unpreserved	X			001E
6 #6	12/20/17 13-30	DW (G 1 120 mL Plas	tic Na2S2O3	X			GIOO
7	• • • • • • • • • • • • • • • • • • •							
8								
9								
			-					
10								
11								
12	·							
Waste Water (WW), Surface Water(SW), PLEASE (Ground Water (GW), Solid Waste (WA), \$449.00 Sludge (U), Wipe (P) CONTAINER: 202, COLLECT	S & SPECIAL INSTRUC COMPLETE THE HIGH ALL BOTTLES AND V H VIAL WITHOUT AIR	LIGHTED SEC	HE SAME TAP	AND SPILL HCI F	PRESERVATIVE		CONDITION 1. Improper/damaged (2. Improper preservations 3. Insufficient sample w 4. Headspace/air bubb	container/cap on volume
Glass (G), Plastic (P) PRESERVATIVE: ADD ONE	7 ML HCI FIELD PRE				BOTTLES AFTER SAM		5. Received past holdi	ng time
H ₂ SO ₄ , HCl, HNO ₃ , Methanol (MeOH) COLLECT	ION						 Received frozen Label conflicts with 	coc
NaOH, Sodium Bisulfate (NaB), NaThio 1. Relinquished By Date	2. Relinguianed By		Date 3. Rp	nguished By	Date	4. Relinquished By		Date
5450N UNGER 12/20/1	7 Jung		12-20-17 0	18h	- 12.20.17			
Jan hon Tice 4:10	Refer ed By			red By	7 Ide 16:22	Received By	Id	Time E
Submission of samples subject to Terms and Cor	nditions on back.	Rev. 7/20/	/08 Plea	se fill out this form o	completely, print, sign & sub	omit with sample:	s. Keep a copy fo	or your records.
V								