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

December 30, 2016

Workorder: 1611194

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

TEL: (630) 340-0100 FAX: (630) 340-0120 RE: 600 E Butterfield Non-Compliance Drinking Water Analysis

Dear Terry McGhee:

Suburban Laboratories, Inc. received 1 sample(s) on 11/30/2016 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,

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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: 600 E Butterfield Non-Compliance Drinking Wa WorkOrder: 1611194 Temperature of samples upon receipt at SLI: 10 C

Date: December 30, 2016 PO #: QC Level: LEVEL I Chain of Custody #: 135111

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:

Copper:

Sample 1611I94-001A: S=The MS percent recovery (226.4%) was outside laboratory control limits (70.0% - 130.0%).



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Laboratory Results

Client ID:Du Page Water CommissionProject Name:600 E Butterfield Non-Compliance Drinking Wat

Report Date: December 30, 2016 Workorder: 1611194

Client Sample ID: Pump Station

Lab ID: 1611194-001

Date Received: 11/30/2016 1:35 PM

Matrix: DRINKING WATER Collection Date: 11/30/2016 10:30 AM

			Report			Dilution					
Parameter	Result	MCL	, Limit	Qual.	Units	Factor	Date Analyzed	Batch ID			
METALS BY ICP			Metho	od: EPA-200.7-Rev 4	4.4,1994		Analyst: jmk				
Calcium	34,300		50.0		µg/L	1	12/09/2016 4:21 PM	42050			
Hardness, Ca/Mg (As CaCO3)	135,000		0		µg/L	1	12/09/2016 4:21 PM	42050			
Iron	ND	1,000	50.0		μg/L	1	12/09/2016 4:21 PM	42050			
Magnesium	11,900		50.0	с	µg/L	1	12/09/2016 4:21 PM	42050			
Sodium	7,010		300		μg/L	1	12/09/2016 4:21 PM	42050			
METALS BY ICPMS			Metho	od: EPA-200.8-Rev {	5.4, 1994		Analyst: mjs				
Antimony	ND	6.00	2.00		µg/L	1	12/06/2016 4:38 PM	42050			
Arsenic	0.502	10.0	0.500		μg/L	1	12/06/2016 4:38 PM	42050			
Barium	19.3	2,000	5.00		μg/L	1	12/06/2016 4:38 PM	42050			
Beryllium	ND	4.00	1.00		µg/L	1	12/06/2016 4:38 PM	42050			
Cadmium	ND	5.00	3.00		μg/L	1	12/06/2016 4:38 PM	42050			
Chromium	ND	100	5.00		µg/L	1	12/06/2016 4:38 PM	42050			
Copper	ND	1,300	100	S	μg/L	1	12/07/2016 1:29 PM	42050			
Lead	ND	15.0	5.00		µg/L	1	12/06/2016 4:38 PM	42050			
Mercury	ND	2.00	0.100		µg/L	1	12/06/2016 4:38 PM	42050			
Selenium	ND	50.0	2.00		µg/L	1	12/06/2016 4:38 PM	42050			
Thallium	ND	2.00	2.00		µg/L	1	12/06/2016 4:38 PM	42050			
VOLATILE ORGANIC COMPOUNDS (I	REGULATED)		Meth	od: EPA-524.2-Rev I	R4.1		Analyst: mkl				
Benzene	ND	5.00	0.500		μg/L	1	12/02/2016 11:26 AM	R78951			
Carbon tetrachloride	ND	5.00	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
Chlorobenzene	ND	100	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
1,4-Dichlorobenzene	ND	75.0	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
1,2-Dichlorobenzene	ND	600	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
1,2-Dichloroethane	ND	5.00	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
1,1-Dichloroethene	ND	7.00	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
cis-1,2-Dichloroethene	ND	70.0	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
trans-1,2-Dichloroethene	ND	100	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
1,2-Dichloropropane	ND	5.00	0.500		μg/L	1	12/02/2016 11:26 AM	R78951			
Ethylbenzene	ND	700	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
Methylene chloride	ND	5.00	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
Styrene	ND	100	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
Tetrachloroethene	ND	5.00	0.500		µg/L	1	12/02/2016 11:26 AM	I R78951			
Toluene	ND	1,000	0.500		µg/L	1	12/02/2016 11:26 AM	R78951			
1,2,4-Trichlorobenzene	ND	70.0	0.500		µg/L	1	12/02/2016 11:26 AM	I R78951			



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Laboratory Results

Report Date: December 30, 2016 Workorder: 1611194

Client Sample ID: Pump Station

Lab ID: 1611194-001

Client ID: Du Page Water Commission

Project Name: 600 E Butterfield Non-Compliance Drinking Wat

Date Received: 11/30/2016 1:35 PM

Matrix: DRINKING WATER Collection Date: 11/30/2016 10:30 AM

	Report						Dilution	l				
Parameter 1	Result	MCL	Limit	()ual.	Units	Factor	Date Analyzed	Batch ID			
VOLATILE ORGANIC COMPOUNDS (REGULAT	red)		Me	thod: EPA-52	4.2-Rev	R4.1		Analyst: mkl				
Trichloroethene	ND	5.00	0.500		µg/L		1	12/02/2016 11:26 AM	R78951			
1,1,1-Trichloroethane	ND	200	0.500			µg/L	1	12/02/2016 11:26 AM	R78951			
1,1,2-Trichloroethane	ND	5.00	0.500			µg/L	1	12/02/2016 11:26 AM	R78951			
Vinyl chloride	ND	2.00	0.500			µg/L	1	12/02/2016 11:26 AM	R78951			
m,p-Xylene	ND		0.500			µg/L	1	12/02/2016 11:26 AM	R78951			
o-Xylene	ND		0.500			µg/L	1	12/02/2016 11:26 AM	R78951			
Total Xylenes	ND	10,000	0.500			µg/L	1	12/02/2016 11:26 AM	R78951			
Internal Quality Control Compounds												
SS: 1,2-Dichlorobenzene-d4	88.2		70-130			%Rec	1	12/02/2016 11:26 AM	R78951			
SS: 4-Bromofluorobenzene	92.8		70-130			%Rec	1	12/02/2016 11:26 AM	R78951			
VOLATILE ORGANIC COMPOUNDS (UNREGU	LATED)		Me	thod: EPA-52	4.2-Rev	4.1, 1995		Analyst: mkl				
Methyl tert-butyl ether	ND		0.500		µg/L		1	12/07/2016 3:15 PM	R79019			
Internal Quality Control Compounds												
SS: 1,2-Dichlorobenzene-d4	ə-d4 88.6 70-130			%Rec			12/07/2016 3:15 PM	R79019				
SS: 4-Bromofluorobenzene	88.6		70-130			%Rec	1	12/07/2016 3:15 PM	R79019			
PESTICIDE COMPOUNDS		Method: EPA-525.2-Rev 2.0, 1995					Analyst: Is					
Alachlor	ND	2.00	0.200			µg/L	1	12/14/2016 5:50 AM	42097			
Atrazine	ND	3.00	0.200			µg/L	1	12/14/2016 5:50 AM	42097			
Simazine	ND	4.00	0.200			µg/L	1	12/14/2016 5:50 AM	42097			
Internal Quality Control Compounds												
SS: 1,3-Dimethyl-2-nitrobenzene	92.8		60.3-130)		%Rec	1	12/14/2016 5:50 AM	42097			
SS: Perylene-d12	72.2		26-125		%Rec		1	12/14/2016 5:50 AM	42097			
SS: Triphenyl phosphate	116		50.9-181	1		%Rec	1	12/14/2016 5:50 AM	42097			
ALKALINITY, TOTAL		Method: SM-2320B-Rev 18Ed, 1992, 21Ed,						Ed, 1997 Analyst: src				
Alkalinity, Total(As CaCO3)	106	20.0			mg/L CaCO3		1	12/05/2016 3:21 PM	R78897			
TOTAL NITRATES (NITRATE+NITRITE)			Me	ethod:				Analyst: pgr				
Total Nitrates (as N)	.5	10.0	0			mg/L	1	12/30/2016 2:40 PM	R79657			
PH METHOD 9041A (IN LABORATORY)			Me	ethod: EPA-90	41A-Rev	v 1, Jul-92		Analyst: pgr				
рН	7			v	с	pH Units	1	12/30/2016 2:40 PM	R79657			
COLIFORM, PRESENCE-ABSENCE-COLILERT			Me	othod: SM-922	3B-PA-F	Rev 1997 Rev. C	Inline	Analyst: emk				



Laboratory Results

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Client ID: Project Name:	Client ID: Du Page Water Commission Project Name: 600 E Butterfield Non-Compliance Drinking Wat						cember 30, 2016 11194	
Client Sample ID: Lab ID:	Pump Station 1611194-001	Date Re	ceived: 11/30/2016 1::	35 PM	M Collection	2100 2016 2017 2017 2017 2017 2017 2017 2017 2017		
Parameter		Result	Report MCL Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
COLIFORM, PRESENC	E-ABSENCE-COLIL	.ERT	Method: S	SM-9223B-PA-	Rev 1997 Rev. 0	Online	Analyst: emk	
E. Coli		0	0		CFU/100ml	1	11/30/2016 4:45 PM	41950
Total Coliform		0	0		CFU/100ml	1	11/30/2016 4:45 PM	41950
TURBIDITY			Method: I	EPA-180.1-Rev	2.0, Aug-93		Analyst: jtl	
Turbidity		ND	0.100		NTU	1	12/01/2016 3:45 PM	R78808



PREP DATES REPORT

DuPage Water Commission **Client:**

Project: 600 E Butterfield Non-Compliance

Report Date: December 30, 2016 Lab Order: 1611194

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1611194-001A	11/30/2016 10:30:00	42050	TURB_METALS	Turbidity Check		12/6/2016
1611194-001D		41950	T_COLI_PR	Total Coliform Prep		11/30/2016
1611194-001F		42097	525_DW_PR	525 Prep Code		12/8/2016



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Qualifier Definitions

WO#: 1611194 Date: 12/30/2016

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 accredidation
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	Accredidation 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.

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Company Name	50, Geneva, IL 6	0134	Tel. 708	.544.32	260	Fax: 708.544.8	3587 Toll Free:	800.78	3.LABS www.	suburbanlabs.cor	n	<u> </u>	<u>35</u> .	111
Company Address										Page of				
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SAMPLE IDENTIFICATION	COLLECTI	ИС		GRAB/	cc	NTAINERS		to de de con y subde			S	imples received	the	☐ Yes
Use One Line Per Preservation & Container Type	DATE	TIME	MATRIX	COMP.	Qty	SIZE & TYPE	PRESERVATIVE			Anadalisty	R	Condition	Isplit	LAB #
1 # 1 PUMP STATTON	111301	9:45						la milita i constructor e man						
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3 #3 PUMP STATTON	11,30,	9:45					 Marganetic and Marganetic Action (Marganetic Action) Marganetic Action (Marganetic Action) 						$\left \right $	
4 #4 PUMPSTATION	11,30,16	10:00								Training of the second se			$\left - \right $	
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Waste Water (WW). Surface Water(SW), Sround Water (GW). Solid Waste (WA), Sludge (U). Wipe (P) <u>CONTAINER:</u> 20Z 40Z, 80Z, 40ml Vial, 500ml, Liter (L). Tube, Slass (G). Plastic (P) <u>PRESERVATIVE:</u> H ₂ SO ₄ . HCl, HNO ₃ . Methanol (MeOH) NOH. Solid Water (Map).	SPECIAL INSTRU	ICHONS:	Sŧ	7FE	ĒĻ	VATE		Ĵ			1. Imp 2. Imp 3. Inst 4. Hea 5. Rea 6. Rea	CONDITIO roper/damaged roper preservati Ifficient sample vdspace/air bubl reived past holdi xeived frozen	N COD contain on volume sles for ing time	ES er/cap VOCs
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Submission of samples subject to Terms and Conc	litions on back.				Rev	. 07/20/08				Wh	te-Ori	iginal. Pink	-Sam	pler Copy

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