

# SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134  
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www.suburbanlabs.com

June 26, 2017

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

**Workorder: 1706582**

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 6/7/2017 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,



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





**Client:** Du Page Water Commission

**Date:** June 26, 2017

**Project:** 600 E Butterfield Non-Compliance Drinking Wa

**PO #:**

**WorkOrder:** 1706582

**QC Level:** LEVEL I

**Temperature of samples upon receipt at SLI:** 13 C

**Chain of Custody #:** 140015

**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:**

1706582-001A was preserved in the lab.



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## Laboratory Results

Client ID: Du Page Water Commission

Report Date: June 26, 2017

Project Name: 600 E Butterfield Non-Compliance Drinking Wat

Workorder: 1706582

Client Sample ID: LAB

Matrix: DRINKING WATER

Lab ID: 1706582-001

Date Received: 06/07/2017 11:25 AM

Collection Date: 06/07/2017 10:15 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>METALS BY ICP</b>			Method: EPA-200.7-Rev 4.4, 1994			Analyst: jmk		
Calcium	33,200		100		µg/L	1	06/13/2017 5:11 PM	45717
Hardness, Ca/Mg (As CaCO3)	132,000		125		µg/L	1	06/13/2017 5:11 PM	45717
Iron	ND	1,000	50.0		µg/L	1	06/13/2017 5:11 PM	45717
Magnesium	11,800		50.0	c	µg/L	1	06/13/2017 5:11 PM	45717
Sodium	8,770		300		µg/L	1	06/13/2017 5:11 PM	45717
<b>METALS BY ICPMS</b>			Method: EPA-200.8-Rev 5.4, 1994			Analyst: mjs		
Antimony	ND	6.00	2.00		µg/L	1	06/08/2017 2:46 PM	45717
Arsenic	0.645	10.0	0.500		µg/L	1	06/08/2017 2:46 PM	45717
Barium	21.2	2,000	5.00		µg/L	1	06/08/2017 2:46 PM	45717
Beryllium	ND	4.00	1.00		µg/L	1	06/08/2017 2:46 PM	45717
Cadmium	ND	5.00	3.00		µg/L	1	06/08/2017 2:46 PM	45717
Chromium	ND	100	5.00		µg/L	1	06/08/2017 2:46 PM	45717
Copper	ND	1,300	100		µg/L	1	06/08/2017 2:46 PM	45717
Lead	ND	15.0	2.00		µg/L	1	06/08/2017 2:46 PM	45717
Mercury	ND	2.00	0.100		µg/L	1	06/08/2017 2:46 PM	45717
Selenium	ND	50.0	5.00		µg/L	1	06/08/2017 2:46 PM	45717
Thallium	ND	2.00	2.00		µg/L	1	06/08/2017 2:46 PM	45717
<b>VOLATILE ORGANIC COMPOUNDS (REGULATED)</b>			Method: EPA-524.2-Rev R4.1			Analyst: KH		
Benzene	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Carbon tetrachloride	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Chlorobenzene	ND	100	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,4-Dichlorobenzene	ND	75.0	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,2-Dichlorobenzene	ND	600	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,2-Dichloroethane	0.590	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,1-Dichloroethene	ND	7.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
cis-1,2-Dichloroethene	ND	70.0	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
trans-1,2-Dichloroethene	ND	100	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,2-Dichloropropane	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Ethylbenzene	ND	700	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Methylene chloride	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Styrene	ND	100	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Tetrachloroethene	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Toluene	ND	1,000	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,2,4-Trichlorobenzene	ND	70.0	0.500		µg/L	1	06/13/2017 5:44 PM	R85101



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## Laboratory Results

Client ID: Du Page Water Commission

Report Date: June 26, 2017

Project Name: 600 E Butterfield Non-Compliance Drinking Wat

Workorder: 1706582

Client Sample ID: LAB

Matrix: DRINKING WATER

Lab ID: 1706582-001

Date Received: 06/07/2017 11:25 AM

Collection Date: 06/07/2017 10:15 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>VOLATILE ORGANIC COMPOUNDS (REGULATED)</b>		Method: EPA-524.2-Rev R4.1			Analyst: KH			
Trichloroethene	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,1,1-Trichloroethane	ND	200	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,1,2-Trichloroethane	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Vinyl chloride	ND	2.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
m,p-Xylene	ND		0.500		µg/L	1	06/13/2017 5:44 PM	R85101
o-Xylene	ND		0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Total Xylenes	ND	10,000	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
<u>Internal Quality Control Compounds</u>								
SS: 1,2-Dichlorobenzene-d4	100		70-130		%Rec	1	06/13/2017 5:44 PM	R85101
SS: 4-Bromofluorobenzene	93.4		70-130		%Rec	1	06/13/2017 5:44 PM	R85101
<b>VOLATILE ORGANIC COMPOUNDS (UNREGULATED)</b>		Method: EPA-524.2-Rev 4.1, 1995			Analyst: KH			
Methyl tert-butyl ether	ND		0.500		µg/L	1	06/13/2017 5:44 PM	R85103
<u>Internal Quality Control Compounds</u>								
SS: 1,2-Dichlorobenzene-d4	100		70-130		%Rec	1	06/13/2017 5:44 PM	R85103
SS: 4-Bromofluorobenzene	93.4		70-130		%Rec	1	06/13/2017 5:44 PM	R85103
<b>PESTICIDE COMPOUNDS</b>		Method: EPA-525.2-Rev 2.0, 1995			Analyst: ls			
Alachlor	ND	2.00	0.200		µg/L	1	06/13/2017 4:05 PM	45803
Atrazine	ND	3.00	0.200		µg/L	1	06/13/2017 4:05 PM	45803
Simazine	ND	4.00	0.200		µg/L	1	06/13/2017 4:05 PM	45803
<u>Internal Quality Control Compounds</u>								
SS: 1,3-Dimethyl-2-nitrobenzene	93.3		60.3-130		%Rec	1	06/13/2017 4:05 PM	45803
SS: Perylene-d12	79.7		26-125		%Rec	1	06/13/2017 4:05 PM	45803
SS: Triphenyl phosphate	98.9		50.9-181		%Rec	1	06/13/2017 4:05 PM	45803
<b>ALKALINITY, TOTAL</b>		Method: SM-2320B-Rev 18Ed, 1992, 21Ed, 1997			Analyst: mmh			
Alkalinity, Total(As CaCO3)	96.4		20.0		mg/L CaCO3	1	06/15/2017 4:02 PM	R85151
<b>TOTAL NITRATES (NITRATE+NITRITE)</b>		Method:			Analyst: pgr			
Total Nitrates (as N)	ND	10.0	0		mg/L	1	06/08/2017 4:50 PM	R85475
<b>PH METHOD 9041A (IN LABORATORY)</b>		Method: EPA-9041A-Rev 1, Jul-92			Analyst: pgr			
pH	6			V c	pH Units	1	06/08/2017 4:50 PM	R85475
<b>COLIFORM, PRESENCE-ABSENCE-COLILERT</b>		Method: SM-9223B-PA-Rev 1997 Rev. Online			Analyst: MMM			



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<b>COLIFORM, PRESENCE-ABSENCE-COLILERT</b>		Method: SM-9223B-PA-Rev 1997 Rev. Online		Analyst: MMM			
E. Coli	0	0		CFU/100ml	1	06/07/2017 5:13 PM	45702
Total Coliform	0	0		CFU/100ml	1	06/07/2017 5:13 PM	45702
<b>TURBIDITY</b>		Method: EPA-180.1-Rev 2.0, Aug-93		Analyst: jmk			
Turbidity	0.560	0.100		NTU	1	06/07/2017 4:43 PM	R84842



## Suburban Laboratories, Inc.

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# PREP DATES REPORT

**Client:** DuPage Water Commission  
**Project:** 600 E Butterfield Non-Compliance

**Report Date:** June 26, 2017  
**Lab Order:** 1706582

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1706582-001A	6/7/2017 10:15:00 A	45717	TURB_METALS	Turbidity Check		6/8/2017
1706582-001D		45702	T_COLI_PR	Total Coliform Prep		6/7/2017
1706582-001F		45803	525_DW_PR	525 Prep Code		6/13/2017



**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.

