

New York State Department of Health Wadsworth Center

Biggs Laboratory
PO Box 509
Albany, NY 12201
CLIA# 33D0654341

David Axelrod Institute
120 New Scotland Avenue
Albany, NY 12208
CLIA# 33D2005937

Griffin Laboratory
5668 State Farm Road
Slingerlands, NY 12159
CLIA# 33D2005935

Report No: **EHS1600055682-SR-1**

Page 1 of 1

Report Date: **12/21/2016**

Report retrieved via NYSDOH Health Commerce System by lrw03 on 01/03/2017

REQUESTED BY: DIRECTOR-WCENVIRO

DIRECTOR'S OFFICE
DIVISION OF ENVIRONMENTAL HEALTH SCIENCES
WADSWORTH CENTER
PO BOX 509
EMPIRE STATE PLAZA
ALBANY NY 12201-0509

Wadsworth Center - Environmental Labs

County: RENSSELAER
City (or) Town: HOOSICK FALLS
Submitted by: T. VICKERSON
Collected by:

Submitter's Reference Number: HF3

Grab/Collection Date: 12/08/2016 09:55

Date received: 12/08/2016 13:45

OUTBREAK #: HFPFOA

Location/Project/Facility Name: NY4100041, HOOSICK FALLS (V) PWS - HOOSICK FALLS
Sampling Location Details: TEMPORARY GAC INFLUENT
Chlorinated: Yes

FINAL LABORATORY REPORT

Biggs Laboratory
NYS ELAP ID: 10763

Laboratory of Organic Analytical Chemistry
Lab Director: Dr. K. Kannan
Contact: Dr. David Spink 518-486-2530

Sample Id: EHS1600055682-01

Sample Type: Finished Water

Received Temperature (°C): **10.1**

Received State: **Cooling**

Lab Tracking Id: HF3

Perfluoroalkyl Substances (PFASs) in Drinking Water by Ultra Performance Liquid Chromatography (UPLC) Tandem Mass Spectrometry (MS/MS): ISO 25101

Start Date: 12/9/2016 Analysis Date: 12/9/2016

Perfluorobutanesulfonic acid (PFBS): **<1.77 ng/L**

Perfluorohexanesulfonic acid (PFHxS): **<1.89 ng/L**

Perfluoroheptanoic acid (PFHpA): **11.4 ng/L**

Perfluorooctanoic acid (PFOA): **455 ng/L**

NYSELAP

Perfluorooctanesulfonic acid (PFOS): **4.41 ng/L**

NYSELAP

Perfluorononanoic acid (PFNA): **<2.00 ng/L**

The purpose of our sampling is to analyze for PFOA and/or PFOS, as per ISO 25101:2009 (E) method. This test includes four additional Perfluorinated Chemicals (PFCs): perfluorobutanesulfonic acid (PFBS), perfluorohexanesulfonic acid (PFHxS), perfluoroheptanoic acid (PFHpA), perfluorononanoic acid (PFNA) that have been validated by the laboratory. These other PFCs may have been detected at very low concentrations-EPA has not established health advisories for these chemicals. All six PFCs are effectively removed from drinking water by granular activated carbon filtration systems.

NOTES:

[1] Sample temperature upon receipt did not meet method specifications of 10 °C.

NYSELAP: Accredited by the New York State Environmental Laboratory Approval Program

END OF REPORT

The Laboratory Director authorizes the release of this report. The results in this report relate only to the sample submitted to the laboratory.

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Report No: **EHS1600055681-SR-1**

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Report Date: **12/21/2016**

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DIVISION OF ENVIRONMENTAL HEALTH SCIENCES
WADSWORTH CENTER
PO BOX 509
EMPIRE STATE PLAZA
ALBANY NY 12201-0509

Submitter's Reference Number: HF2

Wadsworth Center - Environmental Labs

County: RENSSELAER
City (or) Town: HOOSICK FALLS
Submitted by: T. VICKERSON
Collected by:

Grab/Collection Date: **12/08/2016 09:50**

Date received: **12/08/2016 13:45**

OUTBREAK #: **HFPFOA**

Location/Project/Facility Name: NY4100041, HOOSICK FALLS (V) PWS - HOOSICK FALLS
Sampling Location Details: TEMPORARY GAC MIDWAY
Chlorinated: Yes

FINAL LABORATORY REPORT

Biggs Laboratory
NYS ELAP ID: 10763

Laboratory of Organic Analytical Chemistry
Lab Director: Dr. K. Kannan
Contact: Dr. David Spink 518-486-2530

Sample Id: EHS1600055681-01

Sample Type: Finished Water

Received Temperature (°C): **10.6**

Received State: **Cooling**

Lab Tracking Id: HF2

Perfluoroalkyl Substances (PFASs) in Drinking Water by Ultra Performance Liquid Chromatography (UPLC) Tandem Mass Spectrometry (MS/MS): ISO 25101

Start Date: 12/9/2016 Analysis Date: 12/9/2016

Perfluorobutanesulfonic acid (PFBS): **<1.77 ng/L**

Perfluorohexanesulfonic acid (PFHxS): **<1.89 ng/L**

Perfluoroheptanoic acid (PFHpA): **<2.00 ng/L**

Perfluorooctanoic acid (PFOA): **5.46 ng/L**

NYSELAP

Perfluorooctanesulfonic acid (PFOS): **<1.91 ng/L**

NYSELAP

Perfluorononanoic acid (PFNA): **<2.00 ng/L**

The purpose of our sampling is to analyze for PFOA and/or PFOS, as per ISO 25101:2009 (E) method. This test includes four additional Perfluorinated Chemicals (PFCs): perfluorobutanesulfonic acid (PFBS), perfluorohexanesulfonic acid (PFHxS), perfluoroheptanoic acid (PFHpA), perfluorononanoic acid (PFNA) that have been validated by the laboratory. These other PFCs may have been detected at very low concentrations-EPA has not established health advisories for these chemicals. All six PFCs are effectively removed from drinking water by granular activated carbon filtration systems.

NOTES:

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Report No: **EHS1600055685-SR-1**

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Report Date: **12/21/2016**

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PO BOX 509
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ALBANY NY 12201-0509

Wadsworth Center - Environmental Labs

County: RENSSELAER
City (or) Town: HOOSICK FALLS
Submitted by: T. VICKERSON
Collected by:

Submitter's Reference Number: HF6D

Grab/Collection Date: 12/08/2016 09:50

Date received: 12/08/2016 13:45

OUTBREAK #: HFPFOA

Location/Project/Facility Name: NY4100041, HOOSICK FALLS (V) PWS - HOOSICK FALLS
Sampling Location Details: TEMPORARY GAC MIDWAY DUPLICATE
Chlorinated: Yes

FINAL LABORATORY REPORT

Biggs Laboratory
NYS ELAP ID: 10763

Laboratory of Organic Analytical Chemistry
Lab Director: Dr. K. Kannan
Contact: Dr. David Spink 518-486-2530

Sample Id: EHS1600055685-01

Sample Type: Finished Water

Received Temperature (°C): **8.8**

Lab Tracking Id: HF6D

Perfluoroalkyl Substances (PFASs) in Drinking Water by Ultra Performance Liquid Chromatography (UPLC) Tandem Mass Spectrometry (MS/MS): ISO 25101

Start Date: 12/9/2016 Analysis Date: 12/9/2016

Perfluorobutanesulfonic acid (PFBS):	<1.77 ng/L
Perfluorohexanesulfonic acid (PFHxS):	<1.89 ng/L
Perfluoroheptanoic acid (PFHpA):	<2.00 ng/L
Perfluorooctanoic acid (PFOA):	5.37 ng/L
Perfluorooctanesulfonic acid (PFOS):	<1.91 ng/L
Perfluorononanoic acid (PFNA):	<2.00 ng/L

NYSELAP

NYSELAP

The purpose of our sampling is to analyze for PFOA and/or PFOS, as per ISO 25101:2009 (E) method. This test includes four additional Perfluorinated Chemicals (PFCs): perfluorobutanesulfonic acid (PFBS), perfluorohexanesulfonic acid (PFHxS), perfluoroheptanoic acid (PFHpA), perfluorononanoic acid (PFNA) that have been validated by the laboratory. These other PFCs may have been detected at very low concentrations-EPA has not established health advisories for these chemicals. All six PFCs are effectively removed from drinking water by granular activated carbon filtration systems.

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CLIA# 33D2005935

Report No: **EHS1600055680-SR-1**

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Report Date: **12/21/2016**

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WADSWORTH CENTER
PO BOX 509
EMPIRE STATE PLAZA
ALBANY NY 12201-0509

Wadsworth Center - Environmental Labs

County: RENSSELAER
City (or) Town: HOOSICK FALLS
Submitted by: T. VICKERSON
Collected by:

Submitter's Reference Number: HF1

Grab/Collection Date: **12/08/2016 09:45**

Date received: **12/08/2016 13:45**

OUTBREAK #: HFPFOA

Location/Project/Facility Name: NY4100041, HOOSICK FALLS (V) PWS - HOOSICK FALLS
Sampling Location Details: TEMPORARY GAC EFFLUENT
WATER PLANT RD
Chlorinated: Yes

FINAL LABORATORY REPORT

Biggs Laboratory
NYS ELAP ID: 10763

Laboratory of Organic Analytical Chemistry
Lab Director: Dr. K. Kannan
Contact: Dr. David Spink 518-486-2530

Sample Id: EHS1600055680-01

Sample Type: Finished Water

Received Temperature (°C): **10.3**

Received State: **Cooling**

Lab Tracking Id: HF1

Perfluoroalkyl Substances (PFASs) in Drinking Water by Ultra Performance Liquid Chromatography (UPLC) Tandem Mass Spectrometry (MS/MS): ISO 25101

Start Date: 12/9/2016 Analysis Date: 12/9/2016

Perfluorobutanesulfonic acid (PFBS): **<1.77 ng/L**

Perfluorohexanesulfonic acid (PFHxS): **<1.89 ng/L**

Perfluoroheptanoic acid (PFHpA): **<2.00 ng/L**

Perfluorooctanoic acid (PFOA): **<2.00 ng/L**

NYSELAP

Perfluorooctanesulfonic acid (PFOS): **<1.91 ng/L**

NYSELAP

Perfluorononanoic acid (PFNA): **<2.00 ng/L**

The purpose of our sampling is to analyze for PFOA and/or PFOS, as per ISO 25101:2009 (E) method. This test includes four additional Perfluorinated Chemicals (PFCs): perfluorobutanesulfonic acid (PFBS), perfluorohexanesulfonic acid (PFHxS), perfluoroheptanoic acid (PFHpA), perfluorononanoic acid (PFNA) that have been validated by the laboratory. These other PFCs may have been detected at very low concentrations-EPA has not established health advisories for these chemicals. All six PFCs are effectively removed from drinking water by granular activated carbon filtration systems.

NOTES:

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Report No: **EHS1600055683-SR-1**

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Report Date: **12/21/2016**

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WADSWORTH CENTER
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ALBANY NY 12201-0509

Wadsworth Center - Environmental Labs

County: RENSSELAER
City (or) Town: HOOSICK FALLS
Submitted by: T. VICKERSON
Collected by:

Submitter's Reference Number: HF4

Grab/Collection Date: 12/08/2016 10:13
Date received: 12/08/2016 13:45

OUTBREAK #: HFPFOA

Location/Project/Facility Name: NY4100041, HOOSICK FALLS (V) PWS - HOOSICK FALLS
Sampling Location Details: DPW GARAGE RESTROOM CWT
Chlorinated: Yes

FINAL LABORATORY REPORT

Biggs Laboratory
NYS ELAP ID: 10763

Laboratory of Organic Analytical Chemistry
Lab Director: Dr. K. Kannan
Contact: Dr. David Spink 518-486-2530

Sample Id: EHS1600055683-01

Sample Type: Finished Water

Received Temperature (°C): 9.7

Lab Tracking Id: HF4

Perfluoroalkyl Substances (PFASs) in Drinking Water by Ultra Performance Liquid Chromatography (UPLC) Tandem Mass Spectrometry (MS/MS): ISO 25101

Start Date: 12/9/2016 Analysis Date: 12/9/2016

Perfluorobutanesulfonic acid (PFBS):	<1.77 ng/L
Perfluorohexanesulfonic acid (PFHxS):	<1.89 ng/L
Perfluoroheptanoic acid (PFHpA):	<2.00 ng/L
Perfluorooctanoic acid (PFOA):	<2.00 ng/L
Perfluorooctanesulfonic acid (PFOS):	<1.91 ng/L
Perfluorononanoic acid (PFNA):	<2.00 ng/L

NYSELAP

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The purpose of our sampling is to analyze for PFOA and/or PFOS, as per ISO 25101:2009 (E) method. This test includes four additional Perfluorinated Chemicals (PFCs): perfluorobutanesulfonic acid (PFBS), perfluorohexanesulfonic acid (PFHxS), perfluoroheptanoic acid (PFHpA), perfluorononanoic acid (PFNA) that have been validated by the laboratory. These other PFCs may have been detected at very low concentrations-EPA has not established health advisories for these chemicals. All six PFCs are effectively removed from drinking water by granular activated carbon filtration systems.

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Report No: **EHS1600055684-SR-1**

Page 1 of 1

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WADSWORTH CENTER
PO BOX 509
EMPIRE STATE PLAZA
ALBANY NY 12201-0509

Submitter's Reference Number: HF5

Wadsworth Center - Environmental Labs

County: RENSSELAER
City (or) Town: HOOSICK FALLS
Submitted by: T. VICKERSON
Collected by:

Grab/Collection Date: 12/08/2016 10:25

Date received: 12/08/2016 13:45

OUTBREAK #: HFPFOA

Location/Project/Facility Name: NY4100041, HOOSICK FALLS (V) PWS - HOOSICK FALLS

Sampling Location Details: HOOSICK FALLS VILLAGE HALL MEN'S CWT

MAIN ST

Chlorinated: Yes

FINAL LABORATORY REPORT

Biggs Laboratory
NYS ELAP ID: 10763

Laboratory of Organic Analytical Chemistry
Lab Director: Dr. K. Kannan
Contact: Dr. David Spink 518-486-2530

Sample Id: EHS1600055684-01

Sample Type: Finished Water

Received Temperature (°C): **8.6**

Lab Tracking Id: HF5

Perfluoroalkyl Substances (PFASs) in Drinking Water by Ultra Performance Liquid Chromatography (UPLC) Tandem Mass Spectrometry (MS/MS): ISO 25101

Start Date: 12/9/2016 Analysis Date: 12/9/2016

Perfluorobutanesulfonic acid (PFBS): **<1.77 ng/L**

Perfluorohexanesulfonic acid (PFHxS): **<1.89 ng/L**

Perfluoroheptanoic acid (PFHpA): **<2.00 ng/L**

Perfluorooctanoic acid (PFOA): **<2.00 ng/L**

NYSELAP

Perfluorooctanesulfonic acid (PFOS): **<1.91 ng/L**

NYSELAP

Perfluorononanoic acid (PFNA): **<2.00 ng/L**

The purpose of our sampling is to analyze for PFOA and/or PFOS, as per ISO 25101:2009 (E) method. This test includes four additional Perfluorinated Chemicals (PFCs): perfluorobutanesulfonic acid (PFBS), perfluorohexanesulfonic acid (PFHxS), perfluoroheptanoic acid (PFHpA), perfluorononanoic acid (PFNA) that have been validated by the laboratory. These other PFCs may have been detected at very low concentrations-EPA has not established health advisories for these chemicals. All six PFCs are effectively removed from drinking water by granular activated carbon filtration systems.

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Report Date: **12/21/2016**

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DIVISION OF ENVIRONMENTAL HEALTH SCIENCES
WADSWORTH CENTER
PO BOX 509
EMPIRE STATE PLAZA
ALBANY NY 12201-0509

Wadsworth Center - Environmental Labs

County: RENSSELAER
Submitted by: TIM VICKERSON
Collected by:

Submitter's Reference Number: FRB

Grab/Collection Date: **12/08/2016**
Date received: **12/08/2016 13:45**

Location/Project/Facility Name: FIELD REAGENT BLANK

Sampling Location Details: PREPARED ON: 12/7/16 - WITH SAMPLE(S): EHS1600055680 - 55685

FINAL LABORATORY REPORT

Biggs Laboratory
NYS ELAP ID: 10763

Laboratory of Organic Analytical Chemistry
Lab Director: Dr. K. Kannan
Contact: Dr. David Spink 518-486-2530

Sample Id: EHS1600055686-01

Sample Type: Field Blank

Received Temperature (°C): **10.8**
Received State: **Cooling**

Lab Tracking Id: FRB

Perfluoroalkyl Substances (PFASs) in Drinking Water by Ultra Performance Liquid Chromatography (UPLC) Tandem Mass Spectrometry (MS/MS): ISO 25101

Start Date: 12/9/2016 Analysis Date: 12/9/2016

Perfluorobutanesulfonic acid (PFBS): **<1.77 ng/L**
Perfluorohexanesulfonic acid (PFHxS): **<1.89 ng/L**
Perfluoroheptanoic acid (PFHpA): **<2.00 ng/L**
Perfluorooctanoic acid (PFOA): **<2.00 ng/L**
Perfluorooctanesulfonic acid (PFOS): **<1.91 ng/L**
Perfluorononanoic acid (PFNA): **<2.00 ng/L**

NYSELAP

NYSELAP

The purpose of our sampling is to analyze for PFOA and/or PFOS, as per ISO 25101:2009 (E) method. This test includes four additional Perfluorinated Chemicals (PFCs): perfluorobutanesulfonic acid (PFBS), perfluorohexanesulfonic acid (PFHxS), perfluoroheptanoic acid (PFHpA), perfluorononanoic acid (PFNA) that have been validated by the laboratory. These other PFCs may have been detected at very low concentrations-EPA has not established health advisories for these chemicals. All six PFCs are effectively removed from drinking water by granular activated carbon filtration systems.

NOTES:

[1] Sample temperature upon receipt did not meet method specifications of 10 °C.

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