

**Environmental
Resources
Management**

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9 June 2017



John McAuliffe, P.E.
Program Director
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RE: Second Data Submittal
Oak Materials – River Road 1, 2 and 3 (442008), Town of Hoosick,
Rensselaer County, New York
Former Oak Materials Fluorglas Division – John Street (442049),
Village of Hoosick Falls, Rensselaer County, New York

Dear Mr. McAuliffe:

This letter transmits the remaining validated analytical results from environmental sampling conducted at the above-referenced properties.

This sampling and analysis was conducted in accordance with the Final Phase 1 Site Characterization Field Sampling and Analysis Plan (SC FSAP) approved by New York State Department of Environmental Conservation (NYSDEC) (ERM, 2016). The sampling was performed at the above-referenced properties pursuant to the Order on Consent and Administrative Settlement Index Number CO 4-20160415-79 dated 3 June 2016 (the Order).

The data presented in this second data submittal include the results from the groundwater samples collected from sixty-four (64) groundwater monitoring wells in 2017 and from surface water and soil samples that were collected in 2016 but had not been validated at the time of the Initial Data Submittal, which was submitted on 14 February 2017.

Former Oak Materials Fluorglas Division – John Street (442049) – Hoosick Falls, New York
Oak Materials – River Road 1, 2 and 3 (442008), Town of Hoosick, New York
Second Data Transmittal – June 2017
NYSDEC Site Numbers 442008 and 442049
9 June 2017
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The data from both submittals will be combined and presented in the Site Characterization Report, which is under development.

Thank you and please contact me at 315-256-5352 if you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read "Jon Fox", with a stylized flourish at the end.

Jon Fox, P.G.
Principal Geologist

Cc: Mark Sweitzer, P.G. (Honeywell)
John Morris, P.E. (Honeywell)
Jim Perazzo, P.G. (ERM)
Maureen Leahy, Ph.D. (ERM)

Attachment 1 – Second Data Submittal

REFERENCE CITED

ERM, 2016. Final Site Characterization Field Sampling and Analysis Plan – Phase 1: Oak Materials – River Road 1, 2 and 3 (No. 442008) and Former Oak Materials Fluorglas Division – John Street (No. 442049). ERM Consulting and Engineering, Inc., Syracuse, New York, 20 July 2016.

ERM, 2017. Initial Data Submittal, Oak Materials – River Road 1, 2 and 3 (No. 442008) and Former Oak Materials Fluorglas Division – John Street (No. 442049). ERM Consulting and Engineering, Inc., Syracuse, New York 14 February 2017.

Attachment 1

Second Data Submittal

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ACRONYMS AND ABBREVIATIONS

APS	Advanced Profiling System
FSAP	Field Sampling and Analysis Plan
µg/kg	Micrograms per kilogram (parts per billion)
µg/L	Micrograms per liter (parts per billion)
mg/L	Milligram per liter
mg/kg	Milligram per kilogram
ng/L	Nanograms per liter (parts per trillion)
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCBs	Polychlorinated biphenyls
PFAS	Perfluorinated Alkyl Compounds
PFCs	Perfluorinated Compounds
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
SC	Site Characterization
SCOs	Soil Cleanup Objectives
SCGs	Standards, Criteria and Guidance
STARS-#1	Spill Technology and Remediation Series Memorandum Number One
SVOCs	Semivolatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List
TOC	Total Organic Carbon
TOGS	Technical Operations Guidance Series
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

1.0

INTRODUCTION

This document transmits all remaining validated analytical results for environmental samples collected pursuant to the Phase 1 Site Characterization Field Sampling and Analysis Plan (SC FSAP) (ERM, 2016a) and the Additional Phase 1 Site Characterization scope of work (ERM, 2016b). The sampling was performed on and in the vicinity of the following properties pursuant to the Order on Consent and Administrative Settlement Index Number CO 4-20160415-79 (the Order).

- Oak Materials - River Road 1, 2 and 3 (442008) (River Road)
- Former Oak Materials Fluorglas Division - John Street (442049) (John Street)

An initial submittal of validated analytical data was transmitted on 14 February 2017.

1.1

SAMPLE COLLECTION

Sample media for the data included in this submittal include groundwater, soil, and surface water:

- River Road:
 - o Three (3) surface water samples (OS-SW-001, -009, and -010)
 - o Four (4) soil samples and three field duplicates from locations OS-B-011, -021, -022, and -023); and
 - o Groundwater samples from thirty-four (34) newly installed monitoring wells.
- John Street:
 - o One soil sample (OS-B-031 (15 to 17 ft)) and
 - o Groundwater samples from thirty (30) newly installed monitoring wells.

The monitoring wells were installed at selected previous Waterloo Advanced Profiling System sampling and profiling locations. One, two, three or four overburden monitoring wells with different screened intervals were installed at each location. Shallow monitoring wells, designated "A", were screened at the water table. In the John Street area, intermediate wells, designated "B", were screened just below the clay unit near the top of the lower sand and gravel unit, and deep wells, designated "C" and "D", were screened near the bottom of the overburden deposits.

In the River Road area, wells designated “B” were screened near the bottom of the overburden deposits.

Sample collection methodologies were:

- Groundwater samples were collected from using low-flow sampling techniques;
- Subsurface soil samples were collected using direct-push sampling technology; and
- Surface water-designated samples were collected directly into laboratory-provided glassware.

Additional information on sample collection is provided in the SC FSAP and Additional Phase 1 Site Characterization scope of work.

All samples were analyzed for perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS) and 10 other perfluorinated compounds, collectively known as perfluorinated alkyl substances (PFAS) or, more commonly perfluorinated compounds (PFCs), as well as pH and Total Organic Carbon (TOC). Specific analytical methods include:

- PFCs by USEPA Method 537-1.1 (modified);
- Total Organic Carbon (TOC) by Lloyd Kahn method; and
- pH by Standard Method 9045D.

Select samples were also analyzed for one or more additional parameters:

- Target Compound List (TCL) and NYSDEC Spill Technology and Remedial Series Memorandum Number One (STARS-#1) Volatile Organic Compounds (VOCs) plus 10 tentatively identified compounds (TICs) by USEPA Method 8260;
- TCL and NYSDEC STARS-#1 Semivolatile Organic Compounds (SVOCs) plus 20 TICs by USEPA Method 8270C;
- Pesticides by USEPA Method 8081;
- Polychlorinated Biphenyls (PCBs) by USEPA Method 8082;
- Target Analyte List (TAL) metals by USEPA Method 6010B;
- Mercury by USEPA Method 7471A (soil) and 7470 (groundwater); and
- Total Cyanide by USEPA Method 9010.

Analytical results for the samples collected from on- and off-property locations at the former River Road and the former John Street facilities are summarized in Tables 1 through 8. Analytical results are also presented on the attached maps (Figures 1 to 9).

1.2 *COMPARISON WITH STANDARDS, CRITERIA, AND GUIDANCE*

Sample results were compared to potentially applicable NYS Standards, Criteria and Guidance (SCGs) by media as summarized below.

1.2.1 *Groundwater*

Groundwater results are compared to NYS ambient water quality standards and guidance values¹ (Class GA) for TCL and TAL constituents. No NYS ambient water quality standards or guidance values for groundwater are available for PFOA and PFOS.

1.2.2 *Soil*

Soil results are compared to NYS Soil Cleanup Objectives² (SCOs) for the current land use for TCL and TAL constituents while results for PFOA and PFOS are compared to the USEPA screening value³ for soil of 1,000 micrograms per kilogram (µg/kg) for the combined level of PFOA and PFOS.

1.2.3 *Surface Water*

Certain grab samples of water present at ground surface were designated surface water. These samples were in: 1) low lying areas where surface water accumulates; 2) areas of potential groundwater discharge; or, 3) drainage ditches or small creeks which may eventually lead to the Hoosic River. The locations of these samples do not directly fit an environment that is suitable for one or more of the best use classification for fresh surface water descriptions contained in 6 NYCRR Part 701.2 through 701.9. Therefore, the results of surface water samples are compared to the groundwater GA SCGs for TCL and TAL constituents and the USEPA HA for PFOA and PFOS set forth in Section 1.2.1.

¹ New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) Memorandum 1.1.1 values for Class GA groundwater.

² New York State Department of Environmental Conservation (NYSDEC) Soil Cleanup Objectives (SCOs) Title 6 Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8.

³ Developed by USEPA based on the Health Advisory for PFOA and PFOS of 70 ng/L for drinking water. <https://www.epa.gov/ny/hoosick-falls-water-contamination>

Geologic units above bedrock in the area (collectively referred to as overburden units) typically consist of the following materials.

- Fine-grained alluvium (predominantly silt and clay) deposited adjacent to the Hoosic River channel.
- Coarse-grained alluvium, consisting predominantly of sand and gravel deposited in the Hoosic River channel.
- Silts and clays deposited in an ancient lake that previously existed in the Hoosic Valley.
- Glacial outwash (predominantly sand and gravel) deposited by meltwaters flowing from glacier ice during the ice ages.
- Glacial till, which is a typically dense, compact, poorly-sorted mixture of silt, clay, sand, gravel, cobbles, and boulders that was deposited beneath the glacier.

Groundwater flow in these overburden units is variable but generally flows toward the Hoosic River.

Bedrock in the area consists predominantly of dark gray to black slate mapped as the Walloomsac Formation. The bedrock stratigraphy and structural geology of the Hoosick Falls area is variable and complex. Groundwater flow in bedrock occurs predominantly through joints, fractures, faults, foliation, and other partings or separations in the bedrock.

2.0

OAK MATERIALS - RIVER ROAD 1, 2, AND 3

The River Road property is located in the Town of Hoosick and is comprised of former Plants 1, 2, and 3. The property is an approximate 11-acre property with buildings located on the northern and southern portions.

This data transmittal reports the results of the following samples:

- o Groundwater samples from thirty-four (34) newly installed monitoring wells;
- o Four (4) soil samples and three field duplicates from locations OS-B-011, -021, -022, and -023; and
- o Three (3) surface water samples from locations OS-SW-001, -009, and -010.

2.1

PFOA AND OTHER PERFLUORINATED COMPOUNDS (PFC)

2.1.1

PFOA and Other PFCs in Groundwater Monitoring Well Samples - River Road

The analytical results for PFOA and other PFCs from groundwater samples collected from thirty-four (34) monitoring wells in on- and off-property locations and one 3-foot diameter concrete well, which is located off-property and appears to have been previously used as a water supply well (designated “old water well” in figures and tables) are presented in Table 1. PFOA results are shown on the map in Figure 1.

2.1.1.1

On-Property Groundwater - River Road

PFOA concentrations in groundwater from on-property monitoring wells ranged from less than the detection limit to a maximum of 660 J ng/L⁴. The highest concentration of PFOA was detected at RR-MW-004B, which is located at the western property boundary near Building 2. At locations with monitoring wells screened at two different depths, lower PFOA concentrations were observed in the sample from the deeper interval, with the exception of the RR-MW-004A/B pair.

⁴ “J” is a data qualifier that indicates an estimated value.

PFOS concentration ranged from below the detection limit to a maximum concentration of 3 J ng/L. Other PFCs were detected at concentrations ranging from below the detection limits to a maximum concentration of 26 ng/L.

2.1.1.2 *Off-Property Groundwater - River Road*

PFOA concentrations in groundwater from off-property monitoring wells and the old water well ranged from less than the detection limit to a maximum of 940 ng/L.

PFOS was detected in approximately one-half of the monitoring well samples with concentrations ranging from below the detection limit to 12 ng/L. Other PFAS were detected at concentrations ranging from 2 J to a maximum concentration of 120 ng/L.

2.1.2 *PFOA and Other PFCs in Soil - River Road*

The analytical results for PFOA and other PFCs in four soil samples and three duplicates collected from off-property locations are presented in Table 2. PFOA results are shown on the map in Figure 2, along with the previously transmitted off-site soil data.

PFOA concentrations in soil from off-property sampling locations ranged from below the detection limit to 3.2 µg/kg with no exceedances of the USEPA screening value of 1,000 µg/kg.

PFOS and other PFC concentrations ranged from below the detection limit to 1.3 J µg/kg with no exceedances of the screening value of 1,000 µg/kg.

These results are within the same range of soil concentrations that were reported in the initial data transmittal.

2.1.3 *PFOA and Other PFCs in Surface Water - River Road*

The analytical results for PFOA and other PFCs from surface water samples collected from three off-property locations are presented in Table 3. PFOA results are shown on the map in Figure 3, along with the previously transmitted surface water data.

PFOA concentrations in the three surface water samples ranged from 45 to 51 ng/L and are within the previously reported range of 40 to 230 ng/L.

PFOS and other PFC concentrations ranged from below the detection limit to 2 J ng/L.

These results are within the range of surface water concentrations that were reported in the initial data transmittal.

2.2 VOLATILE ORGANIC COMPOUNDS (VOCs)

2.2.1 VOCs in Groundwater Monitoring Well Samples - River Road

The analytical results for VOCs from groundwater samples collected from six monitoring wells in on- and off-property locations and the off-property old water well are presented in Table 4. The results for the monitoring well with VOCs that exceed NYS GA Standards are shown on the map in Figure 4.

2.2.1.1 On-Property Groundwater - River Road

Six VOCs - 1,1,2-trichloroethane (1,1,2-TCA), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), methyl tertiary butyl ether (MTBE), trichloroethene (TCE), and vinyl chloride were detected. Only 1,2-DCA and vinyl chloride exceeded their respective NYS GA Standards at one monitoring well, RR-MW-005B. This well is located in the center of the property in the same location as RR-APS-005 where VOCs were detected in discrete-depth groundwater samples. TCE was also detected but below its NYS GA Standard at the shallow well, RR-MW-005A. The buildings on the River Road property are currently not occupied.

2.2.1.2 Off-Property Groundwater - River Road

No VOCs were detected at concentrations exceeding NYS GA Standards or guidance in groundwater samples from off-property locations. TCE was detected at 0.9 J and 0.8 J µg/L at OS-MW-023A, which is located to the west of the River Road property along NY 22.

2.2.2 VOCs in Surface Water - River Road

The analytical results for VOCs in the three surface water samples collected from off-property locations are presented in Table 5.

No VOCs were detected in off-property surface water samples.

2.3 SEMIVOLATILE ORGANIC COMPOUNDS (SVOCS)

2.3.1 SVOCs in Groundwater Monitoring Well Samples – River Road

The analytical results for SVOCs from groundwater samples collected from two off-property monitoring wells are presented in Table 4.

No SVOCs were detected in the two groundwater samples.

2.3.2 SVOCs in Surface Water – River Road

The analytical results for SVOCs in three surface water samples collected from off-property locations are presented in Table 5.

No SVOCs were detected in surface water samples.

2.4 PESTICIDES

2.4.1 Pesticides in Groundwater Monitoring Well Samples – River Road

The analytical results for pesticides in the four groundwater samples collected from on- and off-property locations are presented in Table 5.

No pesticides were detected in the groundwater monitoring well samples.

2.4.2 Pesticides in Surface Water – River Road

The analytical results for pesticides in the surface water samples collected from off-property locations are presented in Table 7.

No pesticides were detected in the surface water samples.

2.5 POLYCHLORINATED BIPHENYLS (PCBS)

2.5.1 PCBs in Groundwater Monitoring Well Samples – River Road

The analytical results for PCBs in groundwater samples collected from six groundwater monitoring wells in on- and off-property locations are presented in Table 4.

No PCBs were detected in the groundwater samples from wells RR-MW-001A, OS-MW-001B, 007B, -009A, -011B, and -016A.

2.5.2 *PCBs in Surface Water – River Road*

The analytical results for PCBs in the three surface water samples collected from off-property locations are presented in Table 5.

No PCBs were detected in the three surface water samples.

2.6 *METALS*

2.6.1 *Metals in Groundwater Monitoring Well Samples – River Road*

The analytical results for metals in groundwater samples collected from monitoring wells at on- and off-property locations are presented in Table 5. The results for metals (other than iron, manganese and sodium) that exceed NYS GA Standards or guidance are shown on Figure 5.

2.6.1.1 *On-Property Groundwater – River Road*

Iron, manganese and sodium exceedances were detected in multiple wells. These metals are naturally occurring and are commonly found in groundwater. The use of sodium in road salt commonly contributes to its occurrence in groundwater.

Arsenic, chromium, lead and magnesium exceedances were detected. Antimony and selenium, which had been detected above NYS GA Standards in several Waterloo APS samples were not detected above Standards in the monitoring well samples.

2.6.1.2 *Off-Property Groundwater – River Road*

Iron, manganese and sodium exceedances were detected in multiple wells. These metals are naturally occurring and are commonly found in groundwater. The use of sodium in road salt commonly contributes to its occurrence in groundwater.

Several other metals (chromium, lead, magnesium, and zinc) were detected above their NYS GA Standards in several groundwater samples. Eight metals exceeded NYS GA standards at only one monitoring well OS-MW-005B, which is located to the southeast of the River Road property.

2.6.2 *Metals in Surface Water – River Road*

The analytical results for metals in the three surface water samples collected from off-property locations are presented in Table 5.

Metal concentrations did not exceed NYS GA Standards or guidance.

2.7 *TOTAL CYANIDE*

2.7.1 *Total Cyanide in Groundwater Monitoring Well Samples – River Road*

The analytical results for total cyanide in any of the six groundwater samples from on- and off-property locations are presented in Table 4.

Total cyanide was not detected in the six groundwater samples.

2.7.2 *Total Cyanide in Surface Water – River Road*

The analytical results for total cyanide in three surface water samples off-property locations are presented in Table 5.

Total cyanide was not detected in any of the three surface water samples.

2.8 *TOTAL ORGANIC CARBON (TOC) AND PH*

2.8.1 *TOC and pH in Groundwater Monitoring Well Samples – River Road*

The analytical results for TOC and pH from groundwater samples collected from on- and off-property locations are presented in Table 1. The results are also shown on the map in Figure 1.

2.8.1.1 *On-Property Groundwater – River Road*

TOC concentrations in groundwater ranged from below the detection limit to 2.7 mg/L.

The pH values in groundwater were slightly alkaline with values ranging from 7.1 to 7.8 and within the NYS GA Standard range of 6.5 to 8.5.

2.8.1.2 *Off-Property Groundwater – River Road*

TOC concentrations in groundwater ranged from below the detection limit to 2.7 mg/L.

The pH values in groundwater were near neutral to slightly alkaline and ranged from 6.9 to 8.6 and within the NYS GA Standard range of 6.5 to 8.5, with the exception of OS-MW-009B at 8.6.

2.8.2 *TOC and pH in Soil – River Road*

The analytical results for TOC and pH from soil samples collected from four off-property locations are presented in Table 2. The results are also shown on the map in Figure 2.

TOC concentrations ranged from below the detection limit to 12,500 mg/kg.

The pH values in soil from off-property locations range from 6.6 to 9.26.

2.8.3 *TOC and pH in Surface Water – River Road*

The analytical results for TOC and pH from three surface water samples collected from off-property locations are presented in Table 3. The results are also shown on the map in Figure 3.

pH values in the surface water samples were slightly alkaline at 7.9 for all samples and within the NYS GA Standard range of 6.5 to 8.5.

TOC was detected in the surface water samples at concentrations ranging from 3.1 to 3.3 mg/L.

3.0 FORMER OAK MATERIALS FLUORGLAS DIVISION - JOHN STREET

The Former Oak Materials Fluorglas Division - John Street (former John Street facility) is located in the Village of Hoosick Falls and is an approximate 0.6-acre property that is currently vacant. The former structure was demolished in 2012. The property is located in a mixed-use commercial and residential portion of the Village.

This data transmittal reports the results of the following samples:

- o Groundwater samples from thirty (30) newly installed monitoring wells; two shallow wells (OS-MW-024A and OS-MW-028A) yielded insufficient water for sampling; and
- o One (1) soil samples from location OS-B-031023.

3.1 PFOA AND OTHER PERFLUORINATED COMPOUNDS (PFCs)

3.1.1 PFOA and Other PFCs in Groundwater Monitoring Well Samples – John Street

The analytical results for PFOA and other PFCs from groundwater samples collected from twenty-eight (28) monitoring wells from on- and off-property locations are presented in Table 9. Concentrations of PFOA are shown on the map in Figure 6.

3.1.1.1 On-Property Groundwater – John Street

PFOA concentrations in on-property groundwater ranged from 140 J to 6,400 ng/L, which is similar to the range of 180 to 5,300 J ng/L observed in the previous Waterloo APS groundwater sampling.

PFOS was only detected in five of the 11 on-property groundwater samples. Concentrations of PFOS ranged from below the detection limit to a maximum concentration of 8 ng/L.

Other PFC concentrations ranged from below the detection limits to a maximum concentration of 160 ng/L.

3.1.1.2 Off-Property Groundwater – John Street

PFOA concentrations in groundwater samples collected from 17 off-property sampling locations ranged from below the detection limit to

4,400 ng/L and are similar to those detected in on-property groundwater samples. The highest concentration of PFOA was detected in the deep sand and gravel layer at well OS-MW-028C.

PFOS was only detected in eight off-property groundwater samples at a maximum of 14 J ng/L.

Other PFCs were detected at concentrations ranging from below the detection limit to a maximum concentration of 140 ng/L.

3.1.2 *PFOA and Other PFCs in Soil – John Street*

The analytical results for PFOA and other PFCs from one soil sample collected from an off-property location are presented in Table 10. Concentrations of PFOA are shown on the map in Figure 7, along with the previously transmitted off-site soil data.

PFOA concentration in off-property soil sample OS-B-031(15-17 feet) was 0.53 J µg/kg and was within the range from below the detection limit to 5.1 µg/kg that was reported for previous soil samples with no exceedances of the USEPA screening value of 1,000 µg/kg.

No other PFCs were detected.

3.2 *VOLATILE ORGANIC COMPOUNDS (VOCs)*

3.2.1 *VOCs in Groundwater Monitoring Well samples – John Street*

The analytical results for VOCs from 30 groundwater samples collected from on- and off-property locations are presented in Table 13. The results for monitoring wells with VOCs that exceed NYS GA Standards are shown on the map in Figure 8.

3.2.1.1 *On-Property Groundwater – John Street*

Seven VOCs were detected in groundwater from on-property locations at concentrations that exceed their respective NY GA Standards at one or more locations. No VOCs were detected above detection limits at JS-MW-004A and -004C and JS-MW-005.

Trichloroethene (TCE) and 1,1,1-trichloroethane (1,1,1-TCA) were detected in the shallow wells at concentrations similar to those detected in the shallow Waterloo APS samples previously reported.

Soil vapor intrusion evaluations have already been conducted at nearby occupied buildings as discussed below in Section 3.3.12.

3.2.1.2 *Off-Property Groundwater – John Street*

Seven VOCs were detected in groundwater at concentrations above their respective GA Standards. The highest concentrations of both TCE and 1,1,1-TCA were detected in samples from deep well OS-MW-026B with maximum concentrations of 1300 µg/L for TCE and 1700 µg/L for 1,1,1 TCA. The highest concentrations of TCE and 1,1,1-TCA in shallow groundwater were detected at OS-MW-031A at 56 and 160 µg/L, respectively.

Soil vapor intrusion evaluations were conducted at nineteen (19) buildings in the vicinity of the shallow monitoring wells where groundwater exhibited exceedances of VOCs. Data from these evaluations were previously submitted to NYSDEC.

3.3 *SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)*

3.3.1 *SVOCs in Groundwater Monitoring Well Samples – John Street*

The analytical results for SVOCs from one groundwater sample that was collected from an off-property location are presented in Table 13.

No SVOCs were detected in the off-property groundwater sample.

3.4 *PESTICIDES*

3.4.1 *Pesticides in Groundwater Monitoring Well Samples – John Street*

The analytical results for pesticides from one groundwater monitoring well sample collected from an off-property location are presented in Table 13.

No pesticides were detected in the off-property groundwater sample from monitoring well OS-MW-030D.

3.5 POLYCHLORINATED BIPHENYLS (PCBS)

3.5.1 PCBs in Groundwater Monitoring Well Samples – John Street

The analytical results for PCBs from one groundwater monitoring well sample collected from an off-property location are presented in Table 13.

No PCBs were detected in the sample from monitoring well OS-MW-030D.

3.6 METALS

3.6.1 Metals in Groundwater Monitoring Well Samples – John Street

The analytical results for metals from 28 groundwater samples collected from on- and off-property locations are presented in Table 13. The results for metals (other than iron, manganese and sodium) that exceed NYS GA Standards or guidance are shown on the map in Figure 9.

3.6.1.1 On-Property Groundwater – John Street

Four metals (iron, manganese, selenium, and sodium) were detected at concentrations that exceed their respective NYS GA Standards in one or more groundwater samples from on-property locations. The exceedance for selenium was detected at one monitoring well JS-MW-001A. No exceedance for cadmium, which was previously detected above the NYS GA standard in a Waterloo APS sample, was detected.

Iron and manganese are naturally occurring metals that are commonly found in groundwater. Sodium is a naturally occurring metal and its use in road salt commonly contributes to its occurrence in groundwater. Selenium is also a naturally occurring metals but is less commonly found in groundwater. Additional evaluation is needed to determine whether the detected concentrations are within background concentrations in the area.

3.6.1.2 Off-Property Groundwater – John Street

Seven metals (barium, chromium, iron, lead, magnesium, manganese and sodium) exhibited exceedances of NYS GA Standards in groundwater from off-property locations.

Barium and chromium exhibited only one exceedance each at monitoring wells OS-MW-030B and OS-MW-031B, respectively. The two lead and magnesium exceedances were also detected in these two wells.

3.7 TOTAL CYANIDE

3.7.1 Total Cyanide in Groundwater Monitoring Well Samples – John Street

The analytical results for total cyanide from the one groundwater monitoring well sample collected from an off-property location is presented in Table 13.

Total cyanide was not detected in the off-property groundwater sample from monitoring well OS-MW-031A.

3.8 TOTAL ORGANIC CARBON (TOC) AND PH

3.8.1 TOC and pH in Groundwater Monitoring Well Samples – John Street

The analytical results for TOC and pH from groundwater monitoring well samples collected from on- and off-property locations are presented in Table 9. The results are also shown on the map in Figure 6.

3.8.1.1 On-Property Groundwater – John Street

The pH values in on-property groundwater monitoring well samples were slightly alkaline and ranged from 7.3 to 8.7. The pH of only one sample (JS-MW-004C) was above the NYS GA Standard range of 6.5 to 8.5.

TOC concentrations ranged from 0.95 J to 31.9 mg/L.

3.8.1.2 Off-Property Groundwater – John Street

The pH values in off-property APS groundwater samples ranged from 6.9 to 8.8, which is within the NYS GA Standard range of 6.5 to 8.5. The pH of two samples (OS-MW-027C and OS-MW-030B) were above the NYS GA Standard range of 6.5 to 8.5.

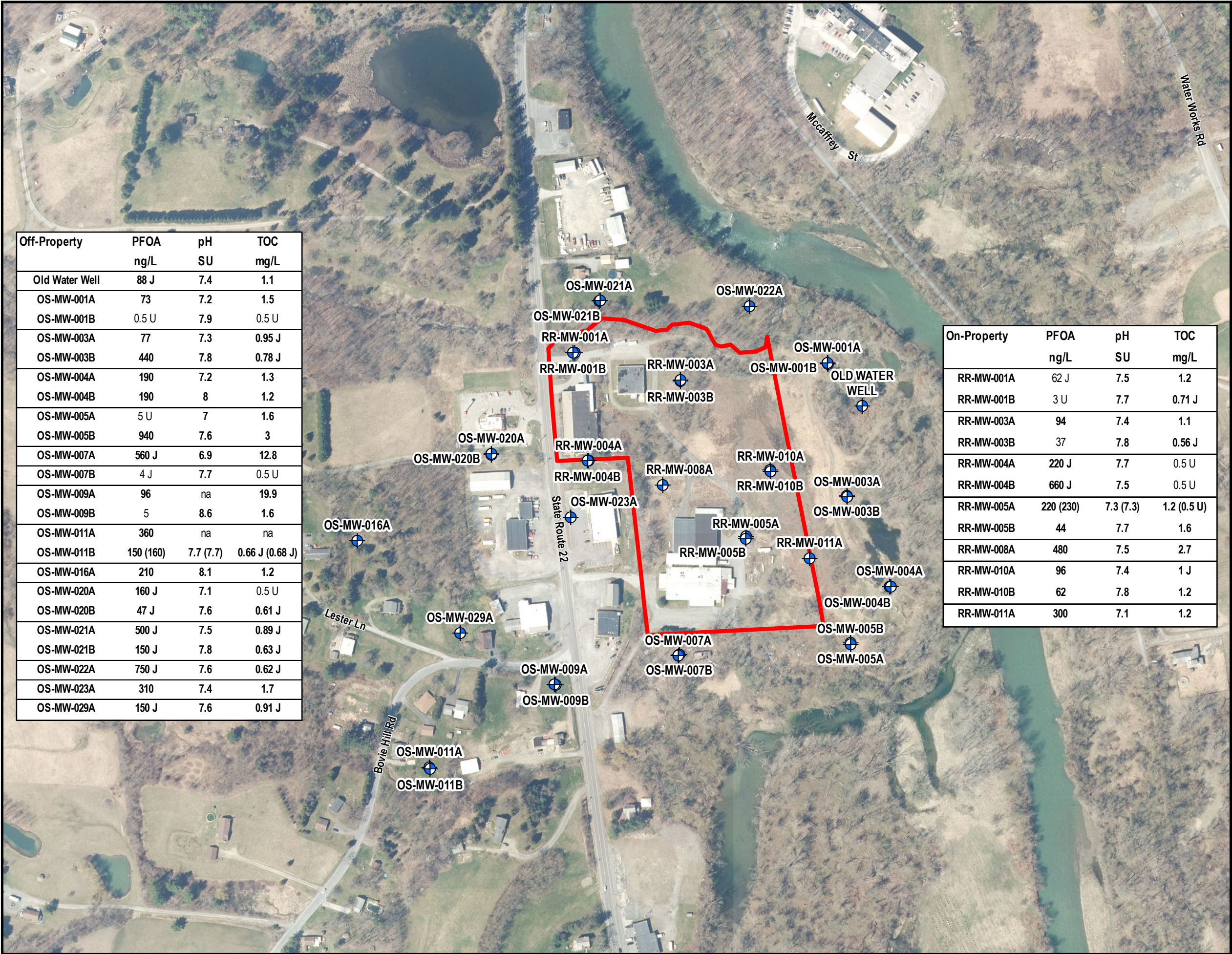
TOC concentrations ranged from below the detection limit to 14 mg/L.

3.8.2 *TOC and pH in Soil*

The analytical results for TOC from the only soil sample collected from an off-property location is presented in Table 10. The result is shown on the map in Figure 7.

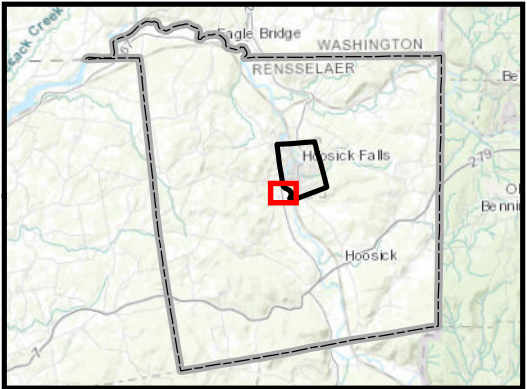
The TOC concentration was 2,050 mg/kg and within the range of 695 to 4,020 mg/kg that was reported for previous subsurface soil samples.

Figures



Off-Property	PFOA ng/L	pH SU	TOC mg/L
Old Water Well	88 J	7.4	1.1
OS-MW-001A	73	7.2	1.5
OS-MW-001B	0.5 U	7.9	0.5 U
OS-MW-003A	77	7.3	0.95 J
OS-MW-003B	440	7.8	0.78 J
OS-MW-004A	190	7.2	1.3
OS-MW-004B	190	8	1.2
OS-MW-005A	5 U	7	1.6
OS-MW-005B	940	7.6	3
OS-MW-007A	560 J	6.9	12.8
OS-MW-007B	4 J	7.7	0.5 U
OS-MW-009A	96	na	19.9
OS-MW-009B	5	8.6	1.6
OS-MW-011A	360	na	na
OS-MW-011B	150 (160)	7.7 (7.7)	0.66 J (0.68 J)
OS-MW-016A	210	8.1	1.2
OS-MW-020A	160 J	7.1	0.5 U
OS-MW-020B	47 J	7.6	0.61 J
OS-MW-021A	500 J	7.5	0.89 J
OS-MW-021B	150 J	7.8	0.63 J
OS-MW-022A	750 J	7.6	0.62 J
OS-MW-023A	310	7.4	1.7
OS-MW-029A	150 J	7.6	0.91 J

On-Property	PFOA ng/L	pH SU	TOC mg/L
RR-MW-001A	62 J	7.5	1.2
RR-MW-001B	3 U	7.7	0.71 J
RR-MW-003A	94	7.4	1.1
RR-MW-003B	37	7.8	0.56 J
RR-MW-004A	220 J	7.7	0.5 U
RR-MW-004B	660 J	7.5	0.5 U
RR-MW-005A	220 (230)	7.3 (7.3)	1.2 (0.5 U)
RR-MW-005B	44	7.7	1.6
RR-MW-008A	480	7.5	2.7
RR-MW-010A	96	7.4	1 J
RR-MW-010B	62	7.8	1.2
RR-MW-011A	300	7.1	1.2



- Legend**
- Monitoring Well Location
 - Approximate Property Boundary

NOTES:
PFOA - Perfluorooctanoic Acid
TOC - Total Organic Carbon
ng/L - nanogram per liter
mg/L - milligram per liter
SU - Standard Units
U - Compound not detected over detection limit
J - Approximate value
na - Sample not analyzed for parameter
Values in parentheses are the results from field duplicates
Aerial Imagery captured in 2014 from New York State

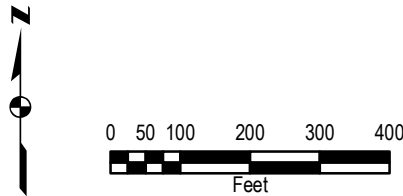
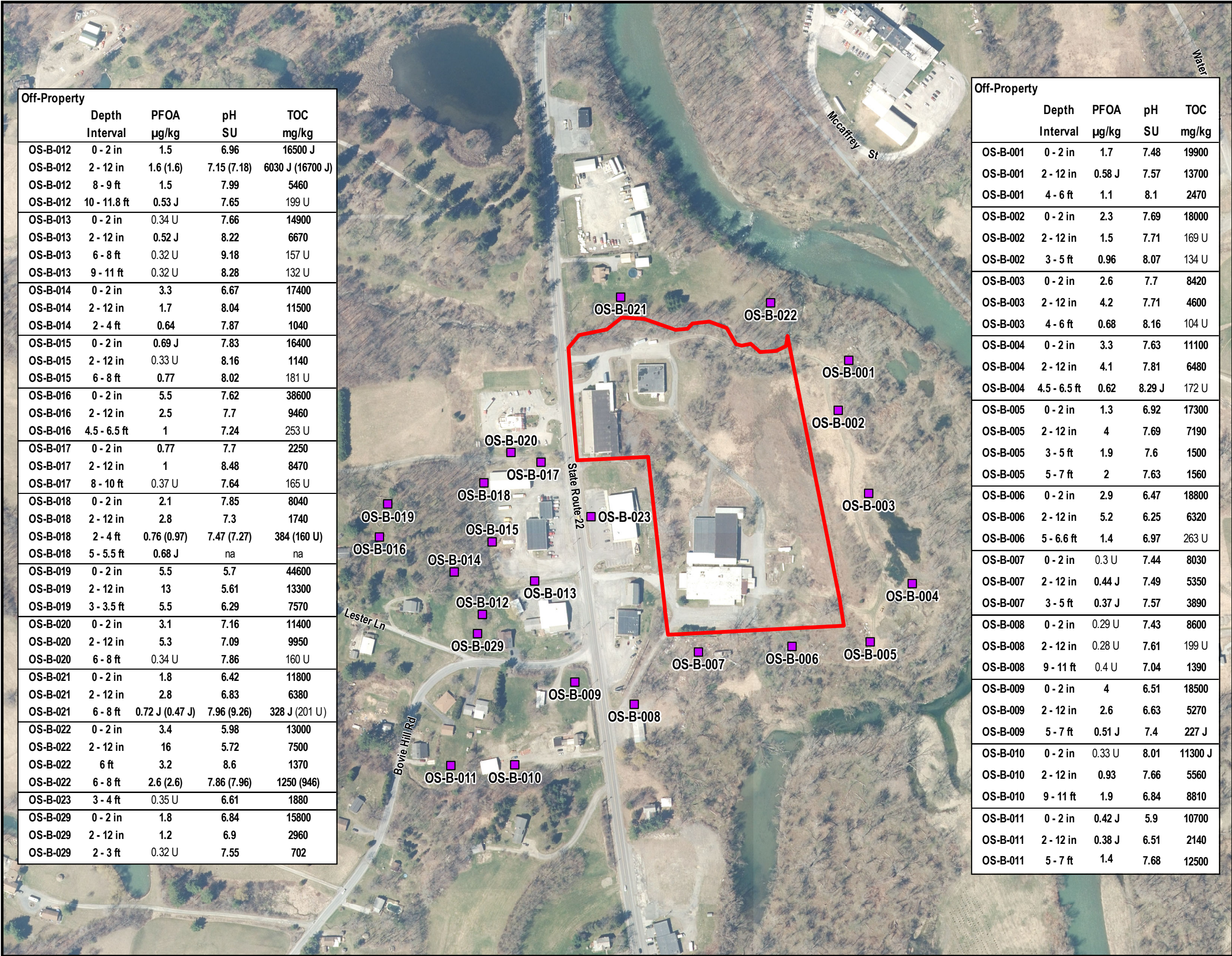


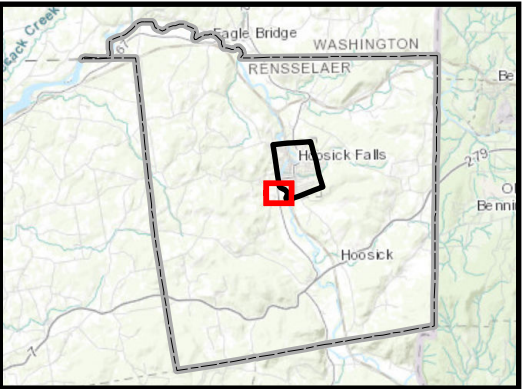
Figure 1: PFOA, pH, and TOC Concentrations in Groundwater Samples from Monitoring Wells - River Road
Oak Materials
River Road Property
Town of Hoosick
New York





Off-Property				
	Depth Interval	PFOA µg/kg	pH SU	TOC mg/kg
OS-B-012	0 - 2 in	1.5	6.96	16500 J
OS-B-012	2 - 12 in	1.6 (1.6)	7.15 (7.18)	6030 J (16700 J)
OS-B-012	8 - 9 ft	1.5	7.99	5460
OS-B-012	10 - 11.8 ft	0.53 J	7.65	199 U
OS-B-013	0 - 2 in	0.34 U	7.66	14900
OS-B-013	2 - 12 in	0.52 J	8.22	6670
OS-B-013	6 - 8 ft	0.32 U	9.18	157 U
OS-B-013	9 - 11 ft	0.32 U	8.28	132 U
OS-B-014	0 - 2 in	3.3	6.67	17400
OS-B-014	2 - 12 in	1.7	8.04	11500
OS-B-014	2 - 4 ft	0.64	7.87	1040
OS-B-015	0 - 2 in	0.69 J	7.83	16400
OS-B-015	2 - 12 in	0.33 U	8.16	1140
OS-B-015	6 - 8 ft	0.77	8.02	181 U
OS-B-016	0 - 2 in	5.5	7.62	38600
OS-B-016	2 - 12 in	2.5	7.7	9460
OS-B-016	4.5 - 6.5 ft	1	7.24	253 U
OS-B-017	0 - 2 in	0.77	7.7	2250
OS-B-017	2 - 12 in	1	8.48	8470
OS-B-017	8 - 10 ft	0.37 U	7.64	165 U
OS-B-018	0 - 2 in	2.1	7.85	8040
OS-B-018	2 - 12 in	2.8	7.3	1740
OS-B-018	2 - 4 ft	0.76 (0.97)	7.47 (7.27)	384 (160 U)
OS-B-018	5 - 5.5 ft	0.68 J	na	na
OS-B-019	0 - 2 in	5.5	5.7	44600
OS-B-019	2 - 12 in	13	5.61	13300
OS-B-019	3 - 3.5 ft	5.5	6.29	7570
OS-B-020	0 - 2 in	3.1	7.16	11400
OS-B-020	2 - 12 in	5.3	7.09	9950
OS-B-020	6 - 8 ft	0.34 U	7.86	160 U
OS-B-021	0 - 2 in	1.8	6.42	11800
OS-B-021	2 - 12 in	2.8	6.83	6380
OS-B-021	6 - 8 ft	0.72 J (0.47 J)	7.96 (9.26)	328 J (201 U)
OS-B-022	0 - 2 in	3.4	5.98	13000
OS-B-022	2 - 12 in	16	5.72	7500
OS-B-022	6 ft	3.2	8.6	1370
OS-B-022	6 - 8 ft	2.6 (2.6)	7.86 (7.96)	1250 (946)
OS-B-023	3 - 4 ft	0.35 U	6.61	1880
OS-B-029	0 - 2 in	1.8	6.84	15800
OS-B-029	2 - 12 in	1.2	6.9	2960
OS-B-029	2 - 3 ft	0.32 U	7.55	702

Off-Property				
	Depth Interval	PFOA µg/kg	pH SU	TOC mg/kg
OS-B-001	0 - 2 in	1.7	7.48	19900
OS-B-001	2 - 12 in	0.58 J	7.57	13700
OS-B-001	4 - 6 ft	1.1	8.1	2470
OS-B-002	0 - 2 in	2.3	7.69	18000
OS-B-002	2 - 12 in	1.5	7.71	169 U
OS-B-002	3 - 5 ft	0.96	8.07	134 U
OS-B-003	0 - 2 in	2.6	7.7	8420
OS-B-003	2 - 12 in	4.2	7.71	4600
OS-B-003	4 - 6 ft	0.68	8.16	104 U
OS-B-004	0 - 2 in	3.3	7.63	11100
OS-B-004	2 - 12 in	4.1	7.81	6480
OS-B-004	4.5 - 6.5 ft	0.62	8.29 J	172 U
OS-B-005	0 - 2 in	1.3	6.92	17300
OS-B-005	2 - 12 in	4	7.69	7190
OS-B-005	3 - 5 ft	1.9	7.6	1500
OS-B-005	5 - 7 ft	2	7.63	1560
OS-B-006	0 - 2 in	2.9	6.47	18800
OS-B-006	2 - 12 in	5.2	6.25	6320
OS-B-006	5 - 6.6 ft	1.4	6.97	263 U
OS-B-007	0 - 2 in	0.3 U	7.44	8030
OS-B-007	2 - 12 in	0.44 J	7.49	5350
OS-B-007	3 - 5 ft	0.37 J	7.57	3890
OS-B-008	0 - 2 in	0.29 U	7.43	8600
OS-B-008	2 - 12 in	0.28 U	7.61	199 U
OS-B-008	9 - 11 ft	0.4 U	7.04	1390
OS-B-009	0 - 2 in	4	6.51	18500
OS-B-009	2 - 12 in	2.6	6.63	5270
OS-B-009	5 - 7 ft	0.51 J	7.4	227 J
OS-B-010	0 - 2 in	0.33 U	8.01	11300 J
OS-B-010	2 - 12 in	0.93	7.66	5560
OS-B-010	9 - 11 ft	1.9	6.84	8810
OS-B-011	0 - 2 in	0.42 J	5.9	10700
OS-B-011	2 - 12 in	0.38 J	6.51	2140
OS-B-011	5 - 7 ft	1.4	7.68	12500



Legend

- Exceeds USEPA Screening Value (1,000 µg/kg)
- Soil boring location
- Approximate Property Boundary

NOTES:
PFOA - Perfluorooctanoic Acid
TOC - Total Organic Carbon
µg/kg - micrograms per kilogram
mg/kg - milligram per kilogram
SU - Standard Units
U - Compound not detected over detection limit
J - Approximate value
na - Sample not analyzed for parameter
Values in parentheses are the results from field duplicates
Aerial Imagery captured in 2014 from New York State

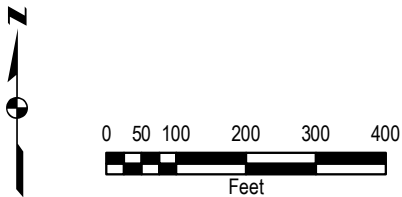
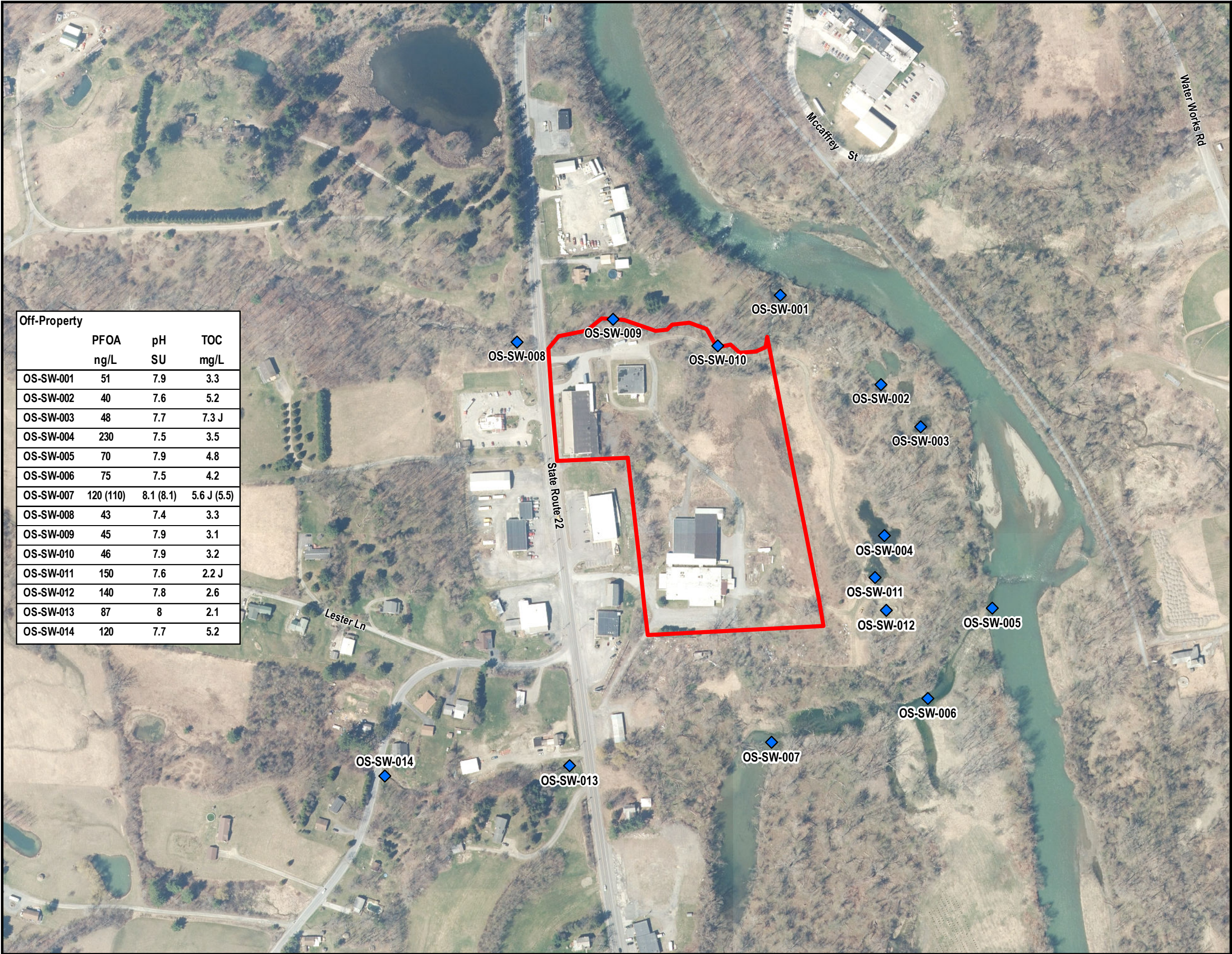
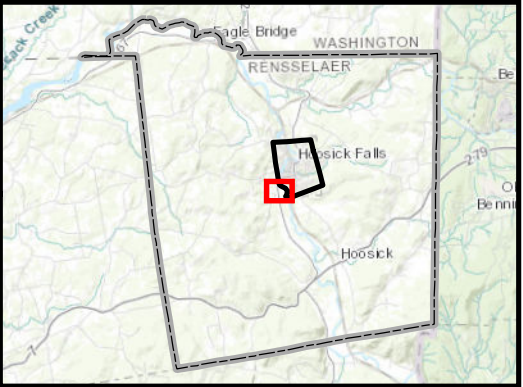


Figure 2: PFOA, pH, and TOC Concentrations in Soil Samples Off-Property - River Road
Oak Materials
River Road Property
Town of Hoosick
New York





Off-Property			
	PFOA ng/L	pH SU	TOC mg/L
OS-SW-001	51	7.9	3.3
OS-SW-002	40	7.6	5.2
OS-SW-003	48	7.7	7.3 J
OS-SW-004	230	7.5	3.5
OS-SW-005	70	7.9	4.8
OS-SW-006	75	7.5	4.2
OS-SW-007	120 (110)	8.1 (8.1)	5.6 J (5.5)
OS-SW-008	43	7.4	3.3
OS-SW-009	45	7.9	3.1
OS-SW-010	46	7.9	3.2
OS-SW-011	150	7.6	2.2 J
OS-SW-012	140	7.8	2.6
OS-SW-013	87	8	2.1
OS-SW-014	120	7.7	5.2



- Legend**
- ◆ Surface Water Location
 - Approximate Property Boundary

NOTES:
PFOA - Perfluorooctanoic Acid
TOC - Total Organic Carbon
ng/L - nanogram per liter
mg/L - milligram per liter
SU - Standard Units
U - Compound not detected over detection limit
J - Approximate value
Values in parentheses are the results from field duplicates

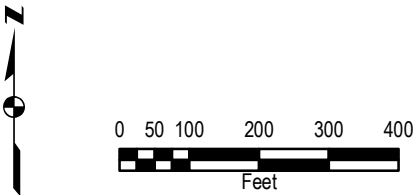
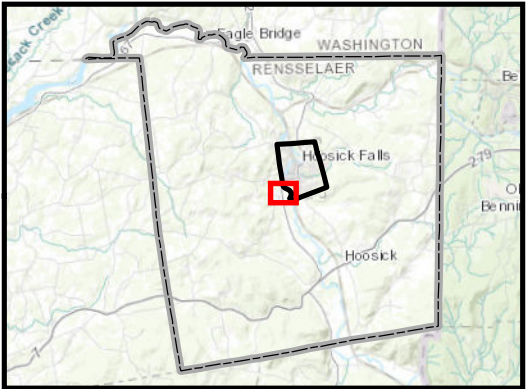
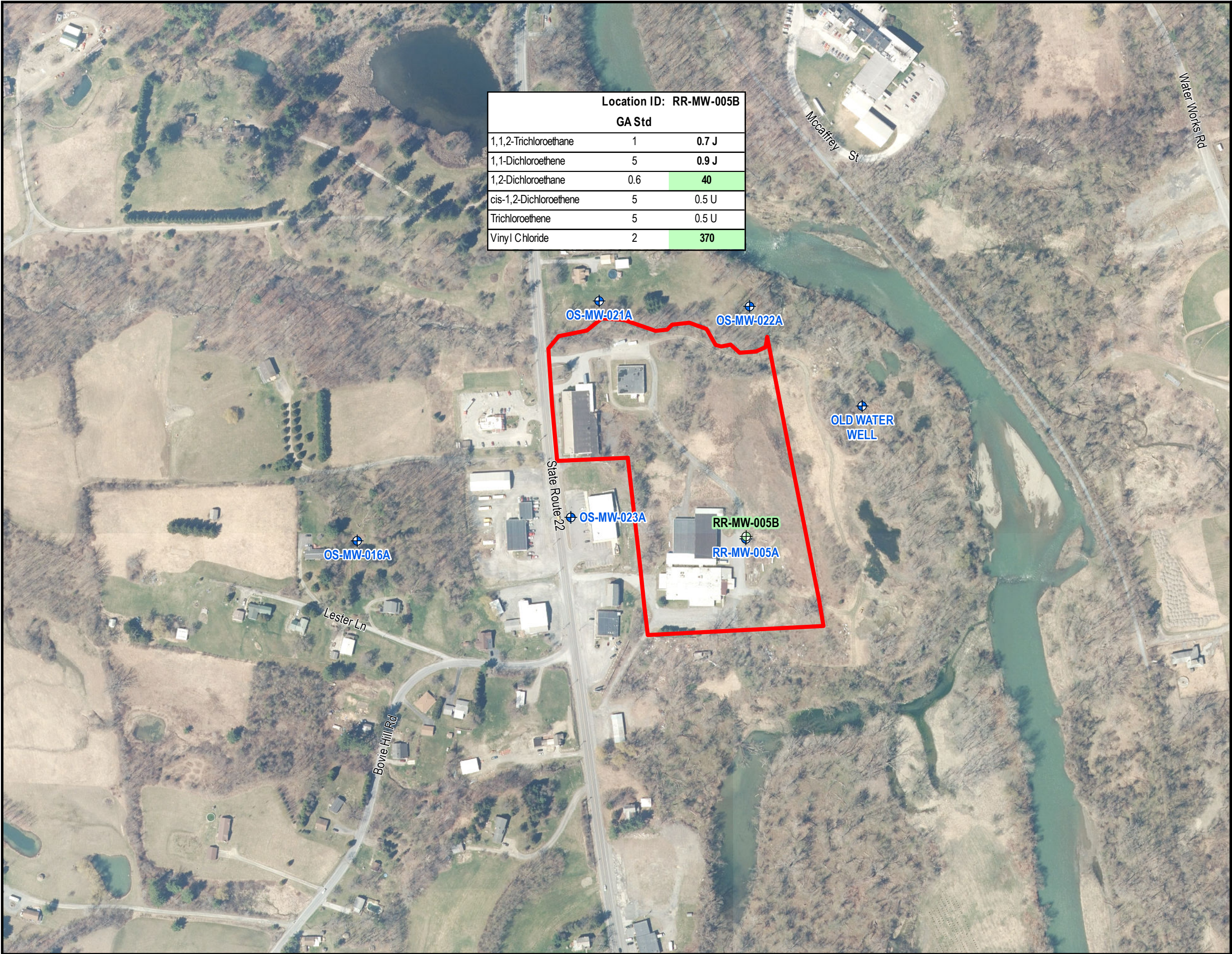


Figure 3: PFOA, pH, and TOC Concentrations in Surface Water Samples - River Road
Oak Materials
River Road Property
Town of Hoosick
New York





Legend

- Exceeds NYS GA Standard
- Groundwater location with VOC concentrations exceeding the NYS GA Standard
- Groundwater location with VOC concentrations below the NYS GA Standard
- Approximate Property Boundary

NOTES:
VOCs - Volatile Organic Compounds
Concentrations in units of micrograms per liter (µg/L)
U - Compound not detected over detection limit
J - Approximate value
Values in parentheses are the results from field duplicates
Aerial Imagery captured in 2014 from New York State

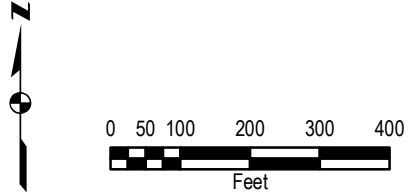
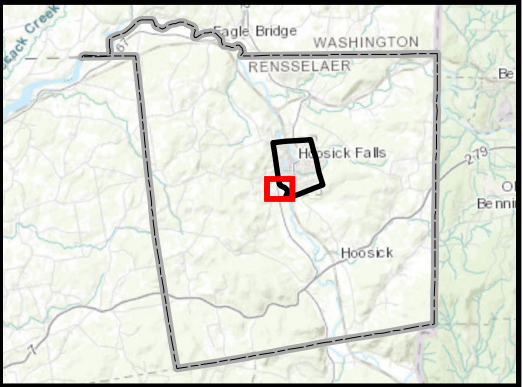


Figure 4: VOC Concentrations in Groundwater Samples that Exceed Class GA Standards or Guidance Values - River Road Oak Materials River Road Property Town of Hoosick New York



Off-Property		Location ID: OS-MW-003B OS-MW-004B OS-MW-005B OS-MW-016A OS-MW-029A				
	GA Guidance	GA Standard	mg/L	mg/L	mg/L	mg/L
Arsenic		0.025	0.0097 U	0.0103 J	0.191 J	0.0123 J
Barium		1	0.372	0.421	6.08	0.707
Beryllium	0.003		0.0015 J	0.00099 J	0.0219 J	0.0019 J
Cadmium		0.005	0.00097 J	0.00064 J	0.0079 J	0.00049 U
Chromium		0.05	0.0256 J	0.0222 J	0.504	0.058
Copper		0.2	0.0868 U	0.0769	1.53	0.0602 U
Lead		0.025	0.041	0.0303	0.808	0.0461
Magnesium	35		38.6	38.9	440	20.2 J
Mercury		0.0007	5E-05 U	5E-05 U	0.0017	6.7E-05 J
Nickel		0.1	0.0352	0.0281	0.805	0.0338
Selenium		0.01	0.0097 U	0.0097 U	0.166 J	0.0097 U
Silver		0.05	0.0019 J	0.0019 U	0.0527	0.0019 U

On-Property		Location ID: RR-MW-001B RR-MW-005B RR-MW-010B		
	GA Guidance	GA Standard	mg/L	mg/L
Arsenic		0.025	0.0163 J	0.0249 J
Chromium		0.05	0.0583	0.0301
Lead		0.025	0.0663	0.0402
Magnesium	35		50.9	41.7



Legend

Exceedances:

- Exceeds NYS GA Standard
- Exceeds NYS GA Guidance
- Monitoring well location
- Approximate Property Boundary

NOTES:
Concentrations in units of milligrams per liter (mg/L)
U - Compound not detected over detection limit
J - Approximate value
Exceedances for Iron, Manganese and Sodium not included
Aerial Imagery captured in 2014 from New York State

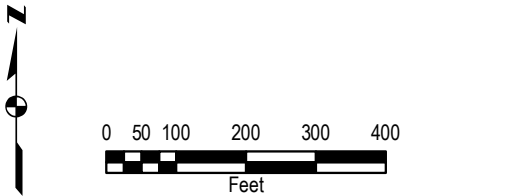


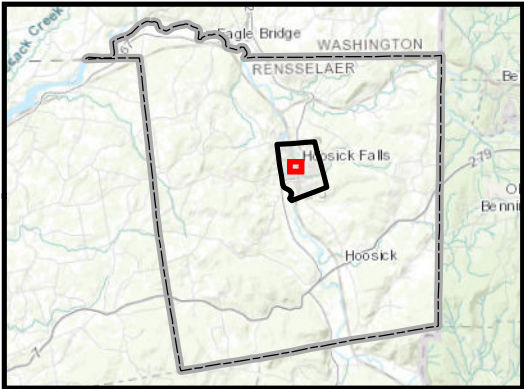
Figure 5: Metal Concentrations in Groundwater Monitoring Well Samples that Exceed Class GA Standards or Guidance Values - River Road
Oak Materials
River Road Property
Town of Hoosick
New York





Off-Property	PFOA ng/L	pH SU	TOC mg/L
OS-MW-024A	na	na	na
OS-MW-024B	620	7.6	1
OS-MW-025A	640 J	6.9	1.2
OS-MW-025B	660 J	7.5	1.6
OS-MW-025C	610 J	7.5	1.2
OS-MW-026A	730 J	7	1.5
OS-MW-026B	3900 (3600)	7.7 (7.6)	1.3 (1.3)
OS-MW-026C	19 J	8	0.69 J
OS-MW-027A	600 J	7.2	1.9
OS-MW-027B	1 U	8.3	0.5 U
OS-MW-027C	25 J	8.7	0.5 U
OS-MW-028A	na	na	na
OS-MW-028B	1700	8.3	0.69 J
OS-MW-028C	4400	7.8	0.95
OS-MW-030A	na	na	na
OS-MW-030B	3800	8.8	1.9
OS-MW-030C	3900	8	0.83 J
OS-MW-030D	3700	8	0.86 J
OS-MW-031A	640 J	7.3	1.4
OS-MW-031B	980	7.4	14

On-Property	PFOA ng/L	pH SU	TOC mg/L
JS-MW-001A	5700 (6400)	7.4 (7.6)	1.8 (1.8)
JS-MW-001B	5900	7.8	6.4
JS-MW-001C	240	7.7	0.95 J
JS-MW-002A	830	7.3	2.3
JS-MW-003A	140 J	7.8	1.4
JS-MW-003B	1500	7.9	4.9
JS-MW-003C	2000	7.8	31.9
JS-MW-004A	300	7.5	1.5
JS-MW-004B	680	7.9	1.2
JS-MW-004C	4100	8.7	2.1
JS-MW-005A	200	7.4	1.7



- Legend**
- Monitoring Well Location
 - Approximate Property Boundary

NOTES:
PFOA - Perfluorooctanoic Acid
TOC - Total Organic Carbon
ng/L - nanogram per liter
mg/L - miligram per liter
SU - Standard Units
U - Compound not detected over detection limit
J - Approximate value
na - Sample not analyzed for parameter
Values in parentheses are the results from field duplicates
Aerial Imagery captured in 2014 from New York State

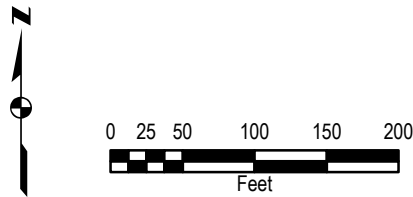
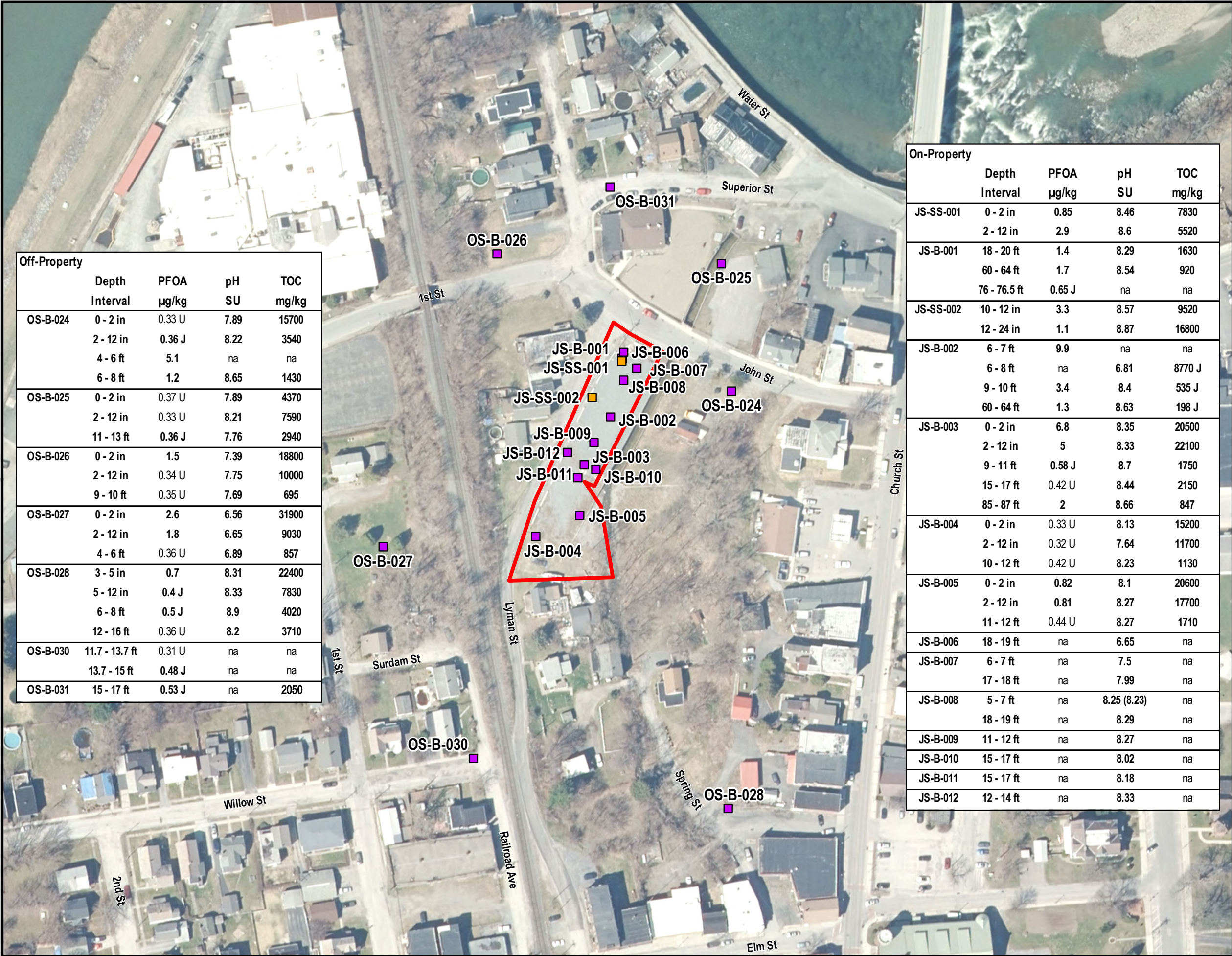


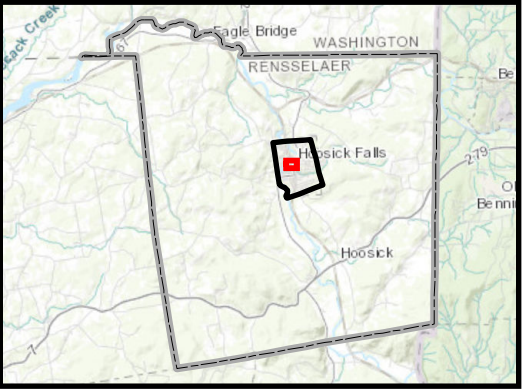
Figure 6: PFOA, pH, and TOC Concentrations in Groundwater Samples From Monitoring Wells - John Street
Former Oak Materials Fluorglas Division
John Street Property
Village of Hoosick Falls
New York





Off-Property				
	Depth Interval	PFOA µg/kg	pH SU	TOC mg/kg
OS-B-024	0 - 2 in	0.33 U	7.89	15700
	2 - 12 in	0.36 J	8.22	3540
	4 - 6 ft	5.1	na	na
	6 - 8 ft	1.2	8.65	1430
OS-B-025	0 - 2 in	0.37 U	7.89	4370
	2 - 12 in	0.33 U	8.21	7590
	11 - 13 ft	0.36 J	7.76	2940
OS-B-026	0 - 2 in	1.5	7.39	18800
	2 - 12 in	0.34 U	7.75	10000
	9 - 10 ft	0.35 U	7.69	695
OS-B-027	0 - 2 in	2.6	6.56	31900
	2 - 12 in	1.8	6.65	9030
	4 - 6 ft	0.36 U	6.89	857
OS-B-028	3 - 5 in	0.7	8.31	22400
	5 - 12 in	0.4 J	8.33	7830
	6 - 8 ft	0.5 J	8.9	4020
	12 - 16 ft	0.36 U	8.2	3710
OS-B-030	11.7 - 13.7 ft	0.31 U	na	na
	13.7 - 15 ft	0.48 J	na	na
OS-B-031	15 - 17 ft	0.53 J	na	2050

On-Property				
	Depth Interval	PFOA µg/kg	pH SU	TOC mg/kg
JS-SS-001	0 - 2 in	0.85	8.46	7830
	2 - 12 in	2.9	8.6	5520
	76 - 76.5 ft	0.65 J	na	na
JS-B-001	18 - 20 ft	1.4	8.29	1630
	60 - 64 ft	1.7	8.54	920
	76 - 76.5 ft	0.65 J	na	na
JS-SS-002	10 - 12 in	3.3	8.57	9520
	12 - 24 in	1.1	8.87	16800
JS-B-002	6 - 7 ft	9.9	na	na
	6 - 8 ft	na	6.81	8770 J
	9 - 10 ft	3.4	8.4	535 J
	60 - 64 ft	1.3	8.63	198 J
JS-B-003	0 - 2 in	6.8	8.35	20500
	2 - 12 in	5	8.33	22100
	9 - 11 ft	0.58 J	8.7	1750
	15 - 17 ft	0.42 U	8.44	2150
JS-B-004	85 - 87 ft	2	8.66	847
	0 - 2 in	0.33 U	8.13	15200
	2 - 12 in	0.32 U	7.64	11700
JS-B-005	10 - 12 ft	0.42 U	8.23	1130
	0 - 2 in	0.82	8.1	20600
	2 - 12 in	0.81	8.27	17700
JS-B-006	11 - 12 ft	0.44 U	8.27	1710
	18 - 19 ft	na	6.65	na
	17 - 18 ft	na	7.5	na
JS-B-007	6 - 7 ft	na	7.5	na
	17 - 18 ft	na	7.99	na
JS-B-008	5 - 7 ft	na	8.25 (8.23)	na
	18 - 19 ft	na	8.29	na
JS-B-009	11 - 12 ft	na	8.27	na
JS-B-010	15 - 17 ft	na	8.02	na
JS-B-011	15 - 17 ft	na	8.18	na
JS-B-012	12 - 14 ft	na	8.33	na



Legend

- Exceeds USEPA Screening Value (1,000 µg/kg)
- Soil boring location
- Surface soil sample location
- Approximate Property Boundary

NOTES:
PFOA - Perfluorooctanoic Acid
TOC - Total Organic Carbon
µg/kg - micrograms per kilogram
mg/kg - milligram per kilogram
SU - Standard Units
U - Compound not detected over detection limit
J - Approximate value
na - Sample not analyzed for parameter
Values in parentheses are the results from field duplicates
Aerial Imagery captured in 2014 from New York State

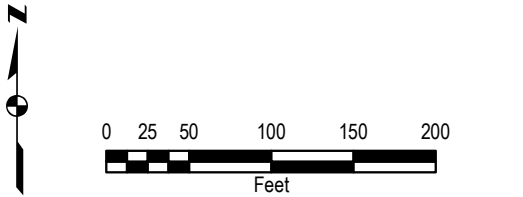
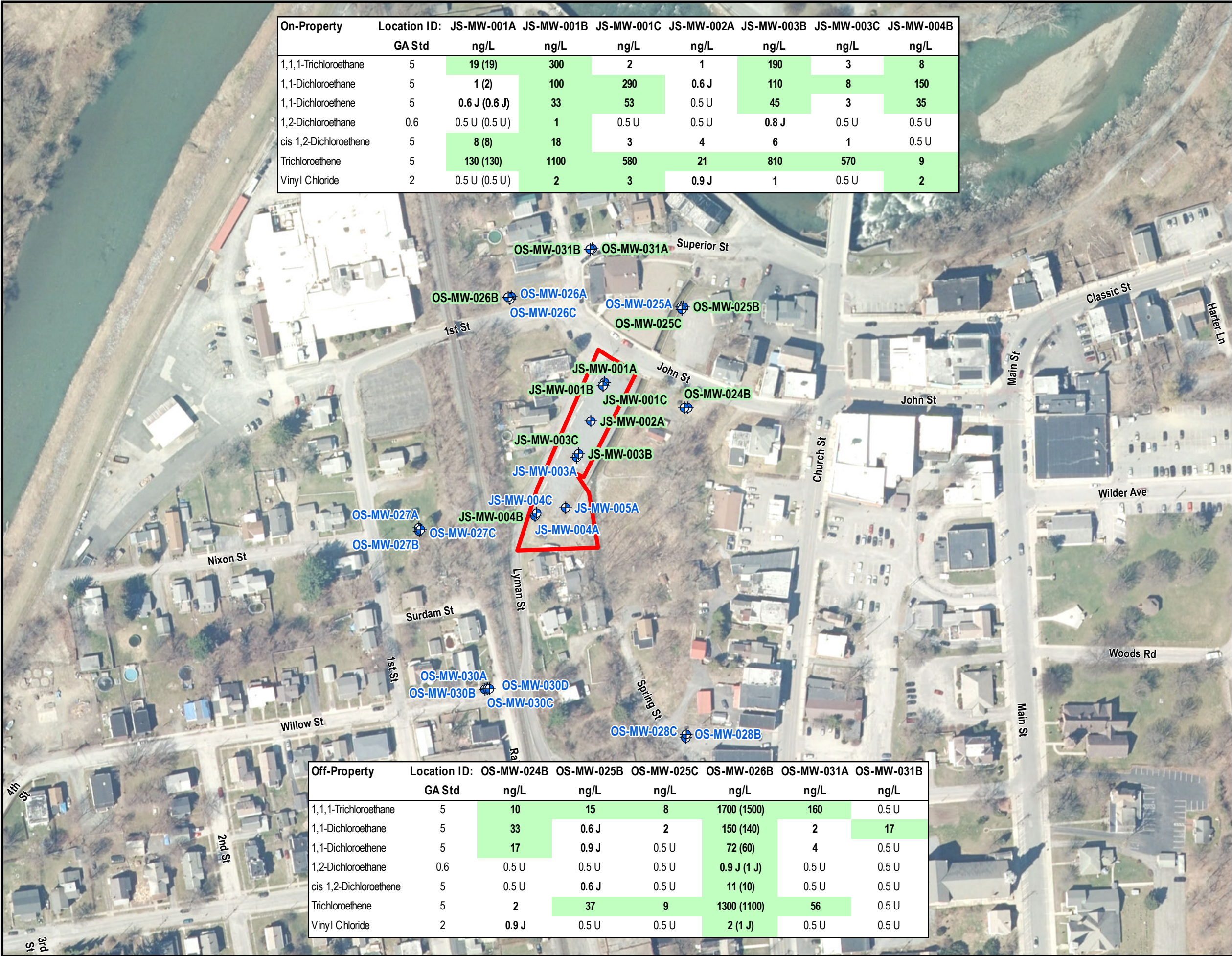


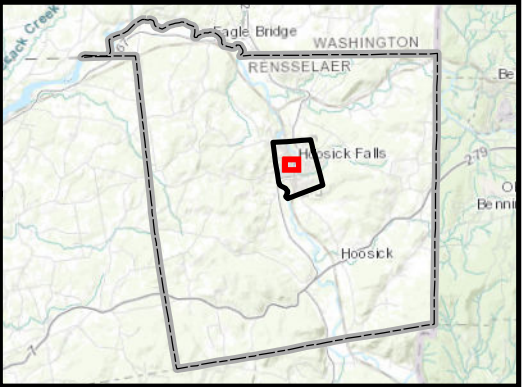
Figure 7: PFOA, pH, and TOC Concentrations in Soil Samples - John Street
Former Oak Materials Fluorglas Division
John Street Property
Village of Hoosick Falls
New York





On-Property	Location ID:	JS-MW-001A	JS-MW-001B	JS-MW-001C	JS-MW-002A	JS-MW-003B	JS-MW-003C	JS-MW-004B
	GA Std	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
1,1,1-Trichloroethane	5	19 (19)	300	2	1	190	3	8
1,1-Dichloroethane	5	1 (2)	100	290	0.6 J	110	8	150
1,1-Dichloroethene	5	0.6 J (0.6 J)	33	53	0.5 U	45	3	35
1,2-Dichloroethane	0.6	0.5 U (0.5 U)	1	0.5 U	0.5 U	0.8 J	0.5 U	0.5 U
cis 1,2-Dichloroethene	5	8 (8)	18	3	4	6	1	0.5 U
Trichloroethene	5	130 (130)	1100	580	21	810	570	9
Vinyl Chloride	2	0.5 U (0.5 U)	2	3	0.9 J	1	0.5 U	2

Off-Property	Location ID:	OS-MW-024B	OS-MW-025B	OS-MW-025C	OS-MW-026B	OS-MW-031A	OS-MW-031B
	GA Std	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
1,1,1-Trichloroethane	5	10	15	8	1700 (1500)	160	0.5 U
1,1-Dichloroethane	5	33	0.6 J	2	150 (140)	2	17
1,1-Dichloroethene	5	17	0.9 J	0.5 U	72 (60)	4	0.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.9 J (1 J)	0.5 U	0.5 U
cis 1,2-Dichloroethene	5	0.5 U	0.6 J	0.5 U	11 (10)	0.5 U	0.5 U
Trichloroethene	5	2	37	9	1300 (1100)	56	0.5 U
Vinyl Chloride	2	0.9 J	0.5 U	0.5 U	2 (1 J)	0.5 U	0.5 U



Legend

- Exceeds NYS GA Standard
- Monitoring well location
- Approximate Property Boundary

NOTES:
VOCs - Volatile Organic Compounds
Concentrations in units of micrograms per liter (µg/L)
U - Compound not detected over detection limit
J - Approximate value
Values in parentheses are the results from field duplicates
Aerial Imagery captured in 2014 from New York State

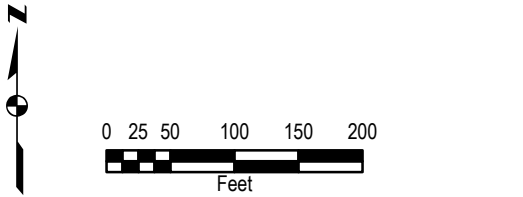
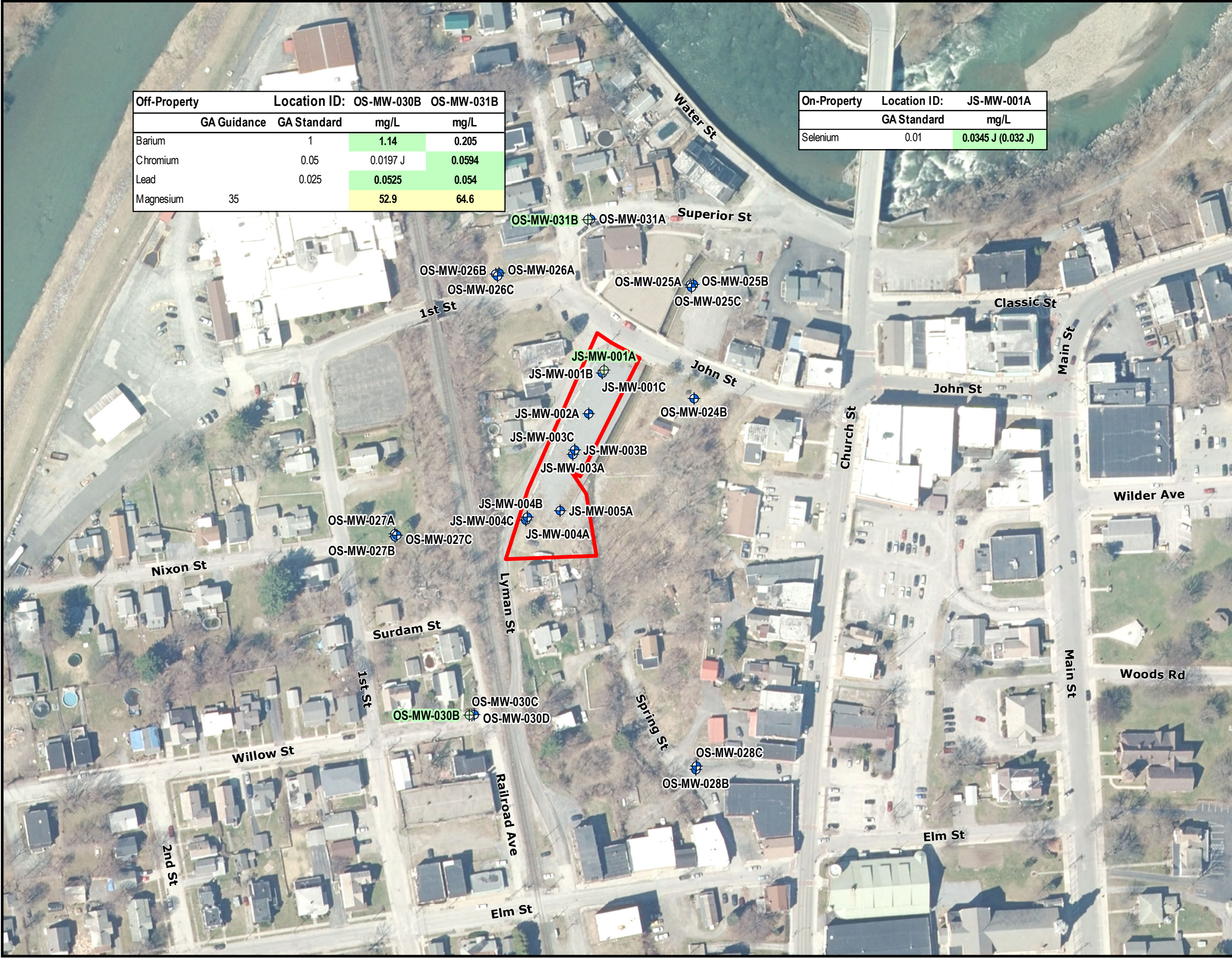


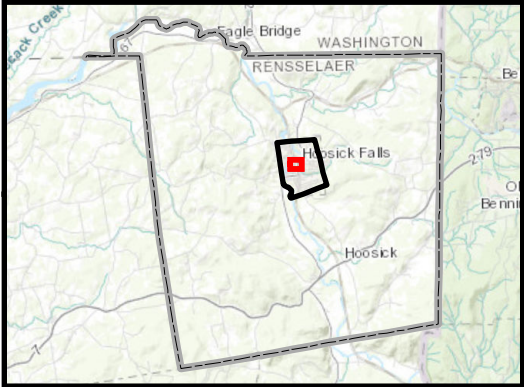
Figure 8: VOC Concentrations in Groundwater Monitoring Well Samples That Exceed Class GA Standards or Guidance - John Street
Former Oak Materials Fluorglas Division
John Street Property
Village of Hoosick Falls
New York





Off-Property		Location ID: OS-MW-030B OS-MW-031B	
GA Guidance	GA Standard	mg/L	mg/L
Barium	1	1.14	0.205
Chromium	0.05	0.0197 J	0.0594
Lead	0.025	0.0525	0.054
Magnesium	35	52.9	64.6

On-Property		Location ID: JS-MW-001A	
GA Standard		mg/L	
Selenium	0.01	0.0345 J (0.032 J)	



Legend

Exceedances:

- Exceeds NYS GA Standard
- Exceeds NYS GA Guidance
- Monitoring well locations with metal concentrations exceeding applicable standards or guidance
- Monitoring well locations with metal concentrations below applicable standards or guidance
- Approximate Property Boundary

NOTES:
Concentrations in units of milligrams per liter (mg/L)
J - Approximate value
Values in parentheses are the results from field duplicates
Aerial Imagery captured in 2014 from New York State

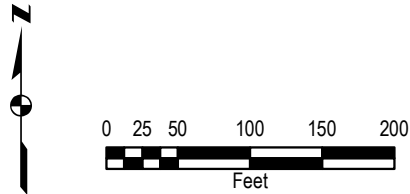


Figure 9: Metal Concentrations in Groundwater Samples from Monitoring Wells that Exceed Class GA Standards or Guidance Values - John Street Former Oak Materials Fluorglas Division John Street Property Village of Hoosick Falls New York



Tables

Table 1

Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater Monitoring Well Samples
Oak Materials - River Road 1, 2 and 3

				Location ID:	RR-MW-001A	RR-MW-001B	RR-MW-003A	RR-MW-003B	RR-MW-004A	RR-MW-004B
				Sample Date:	01/06/2017	01/06/2017	01/05/2017	01/05/2017	01/10/2017	01/10/2017
				Sample Type:	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD							
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	0.7 U	0.7 U	0.7 U	0.7 U	1 J	0.7 U	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.6 U	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	2 J	0.5 U	2	2	3	6	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	1 U	0.7 U	3 U	4 U	2 U	5	
Perfluorononanoic acid (PFNA)	ng/l	-	-	0.6 U	0.6 U	0.6 U	0.6 U	0.9 J	0.6 J	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	2 U	2 U	2 U	2 U	3 J	2 J	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	62 J	3 U	94	37	220 J	660 J	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTrIA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	6.5 to 8.5	7.5	7.7	7.4	7.8	7.7	7.5	
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/l	-	-	1.2	0.71 J	1.1	0.56 J	0.5 U	0.5 U	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 values for Class GA groundwater.

	Exceedance of NYS GA Guidance
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	Exceedance of NYS GA Standard
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Table 1

Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater
Oak Materials - River Road 1, 2 and 3

				Location ID:	RR-MW-005A	RR-MW-005A	RR-MW-005B	RR-MW-008A	RR-MW-010A	RR-MW-010B
				Sample Date:	01/10/2017	01/10/2017	01/05/2017	01/05/2017	01/05/2017	01/05/2017
				Sample Type:	FD	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD							
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	0.8 J	0.7 U	0.7 U	1 J	0.7 U	0.7 U	0.7 U
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.8 U	0.9 U	0.5 U	1 J	0.5 U	0.5 U	0.5 U
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	3	3	2	5	3	3	3
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	2 U	3 U	12	5 U	4 U	13	13
Perfluorononanoic acid (PFNA)	ng/l	-	-	0.6 U	0.6 J	0.6 U	1 J	0.6 U	0.6 U	0.6 U
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	3 J	3 J	2 U	2 J	2 U	2 U	2 U
Perfluorooctanoic acid (PFOA)	ng/l	-	-	230 J	220 J	44	480	96	62	62
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Perfluorotridecanoic Acid (PFTrIA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	6.5 to 8.5	7.3	7.3	7.7	7.5	7.4	7.8	7.8
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/l	-	-	0.5 U	1.2	1.6	2.7	1 J	1.2	1.2

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NYSDEC TOGS111 - Standards listed are the New York State Department of Envi

Series (TOGS) 1.1.1 values for Class GA groundwater.

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 1

Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater
Oak Materials - River Road 1, 2 and 3

				Location ID:	RR-MW-011A	OLD WATER WELL	OS-MW-001A	OS-MW-001B	OS-MW-003A	OS-MW-003B
				Sample Date:	01/05/2017	01/11/2017	01/05/2017	01/05/2017	01/05/2017	01/05/2017
				Sample Type:	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD							
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	0.7 U	0.7 J	1 J	0.7 U	1 J	0.8 J	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.9 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	5	2	2	0.5 U	1 J	42	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	26	2 J	1 U	0.5 U	1 U	110	
Perfluorononanoic acid (PFNA)	ng/l	-	-	0.6 J	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	3 J	2 J	2 U	2 U	2 U	2 U	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	300	88 J	73	0.5 U	77	440	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTrIA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	6.5 to 8.5	7.1	7.4	7.2	7.9	7.3	7.8	
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/l	-	-	1.2	1.1	1.5	0.5 U	0.95 J	0.78 J	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NYSDEC TOGS111 - Standards listed are the New York State Department of Envi

Series (TOGS) 1.1.1 values for Class GA groundwater.

 Exceedance of NYS GA Guidance Exceedance of NYS GA Standard

Table 1

Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-MW-004A	OS-MW-004B	OS-MW-005A	OS-MW-005B	OS-MW-007A	OS-MW-007B
				Sample Date:	01/05/2017	01/05/2017	01/05/2017	01/05/2017	01/10/2017	01/10/2017
				Sample Type:	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD							
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	1 J	3	0.9 J	1 J	1 J	0.7 U	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	5	4	2	66	4	0.5 U	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	1 U	2 J	1 U	1 U	2 J	1 U	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	3 U	5	36	120	5	0.8 J	
Perfluorononanoic acid (PFNA)	ng/l	-	-	0.6 U	0.6 J	0.6 U	0.6 U	0.6 U	0.6 U	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	8	12	2 U	2 U	4 J	2 U	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	190	190	5 U	940	560 J	4 J	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTrIA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	6.5 to 8.5	7.2	8	7	7.6	6.9	7.7	
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/l	-	-	1.3	1.2	1.6	3	12.8	0.5 U	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NYSDEC TOGS111 - Standards listed are the New York State Department of Envi

Series (TOGS) 1.1.1 values for Class GA groundwater.

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 1

Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-MW-009A	OS-MW-009B	OS-MW-011A	OS-MW-011B	OS-MW-011B	OS-MW-016A
				Sample Date:	01/11/2017	01/11/2017	01/11/2017	01/11/2017	01/11/2017	01/10/2017
				Sample Type:	N	N	N	FD	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD							
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	2 J	0.7 U	2	4	4	0.8 J	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	7	0.5 J	18	6	6	5	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	2 J	1 U	2 J	1 U	1 J	1 J	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	10	2 J	11	5	5	3 U	
Perfluorononanoic acid (PFNA)	ng/l	-	-	1 J	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	8	2 U	2 U	3 J	3 J	4 J	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	96	5	360	160	150	210	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTrIA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	6.5 to 8.5	na	8.6	na	7.7	7.7	8.1	
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/l	-	-	19.9	1.6	na	0.68 J	0.66 J	na	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NYSDEC TOGS111 - Standards listed are the New York State Department of Envi

Series (TOGS) 1.1.1 values for Class GA groundwater.

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 1

Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-MW-016A	OS-MW-020A	OS-MW-020B	OS-MW-021A	OS-MW-021B	OS-MW-022A
				Sample Date:	01/11/2017	01/10/2017	01/11/2017	01/11/2017	01/11/2017	01/11/2017
				Sample Type:	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD							
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	na	0.9 J	0.7 U	2 J	1 J	0.9 J	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	na	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	na	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	na	5	2 J	8	7	34	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	na	1 U	1 U	1 U	1 U	1 U	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	na	3 U	0.9 J	8	8	56	
Perfluorononanoic acid (PFNA)	ng/l	-	-	na	0.6 U	0.6 U	0.6 U	0.6 U	1 J	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	na	4 J	2 U	6 J	2 U	2 U	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	na	160 J	47 J	500 J	150 J	750 J	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	na	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTrIA)	ng/l	-	-	na	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	na	1 U	1 U	1 U	1 U	1 U	
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	6.5 to 8.5	na	7.1	7.6	7.5	7.8	7.6	
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/l	-	-	1.2	0.5 U	0.61 J	0.89 J	0.63 J	0.62 J	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NYSDEC TOGS111 - Standards listed are the New York State Department of Envi

Series (TOGS) 1.1.1 values for Class GA groundwater.

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 1

Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-MW-023A	OS-MW-029A
				Sample Date:	01/10/2017	01/10/2017
				Sample Type:	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD			
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>						
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	1 J	3 J	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.5 U	0.5 U	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	8	6	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	2 J	1 U	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	5	6	
Perfluorononanoic acid (PFNA)	ng/l	-	-	0.6 U	0.6 U	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	3 J	6 J	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	310	150 J	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTriA)	ng/l	-	-	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	
<i>pH by Standard Method 9045D</i>						
pH	pH units	-	6.5 to 8.5	7.4	7.6	
<i>Total Organic Carbon by Lloyd Kahn Method</i>						
Total Organic Carbon	mg/l	-	-	1.7	0.91 J	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NYSDEC TOGS111 - Standards listed are the New York State Department of Envi

Series (TOGS) 1.1.1 values for Class GA groundwater.

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 2
Analytical Results for PFOA and Other PFCs, pH and TOC from Soil Samples
Oak Materials - River Road 1, 2 and 3

										Location ID:	OS-B-011	OS-B-021	OS-B-021	OS-B-022
										Sample Date:	12/06/2016	12/08/2016	12/08/2016	12/08/2016
										Sample Depth:	5 - 7 ft	6 - 8 ft	6 - 8 ft	6 - 8 ft
										Sample Type:	N	FD	N	FD
Constituent	Units	NY375 1UNRES	NY375 2RPGW	NY375 3RRES	NY375 4RRRES	NY375 5RCOMM	NY375 6RINDU	NY375 7PER	USEPA Screen Value					
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>														
Perfluorobutanesulfonic acid (PFBS)	µg/kg	-	-	-	-	-	-	-	-	0.62 U	0.56 U	0.6 U	0.56 U	
Perfluorodecanoic acid (PFDA)	µg/kg	-	-	-	-	-	-	-	-	0.25 U	0.23 UJ	0.24 UJ	0.23 U	
Perfluorododecanoic acid (PFDoA)	µg/kg	-	-	-	-	-	-	-	-	0.49 U	0.45 U	0.48 U	0.45 U	
Perfluoroheptanoic acid (PFHpA)	µg/kg	-	-	-	-	-	-	-	-	0.37 U	0.34 U	0.36 U	0.34 U	
Perfluorohexanesulfonic acid (PFHxS)	µg/kg	-	-	-	-	-	-	-	-	0.62 U	0.56 U	1.3 J	0.56 U	
Perfluorohexanoic acid (PFHxA)	µg/kg	-	-	-	-	-	-	-	-	0.25 U	0.23 UJ	0.5 UJ	0.23 U	
Perfluorononanoic acid (PFNA)	µg/kg	-	-	-	-	-	-	-	-	0.25 U	0.23 U	0.24 U	0.23 U	
Perfluorooctanesulfonic acid (PFOS)	µg/kg	-	-	-	-	-	-	-	1000	0.86 U	0.79 U	0.85 U	0.79 U	
Perfluorooctanoic acid (PFOA)	µg/kg	-	-	-	-	-	-	-	1000	1.4	0.47 J	0.72 J	2.6	
Perfluorotetradecanoic acid (PFTA)	µg/kg	-	-	-	-	-	-	-	-	0.37 U	0.34 U	0.36 U	0.34 U	
Perfluorotridecanoic Acid (PFTriA)	µg/kg	-	-	-	-	-	-	-	-	0.74 U	0.68 U	0.72 U	0.68 U	
Perfluoroundecanoic Acid (PFUnA)	µg/kg	-	-	-	-	-	-	-	-	0.37 U	0.34 UJ	0.36 UJ	0.34 U	
<i>pH by Standard Method 9045D</i>														
pH	pH units	-	-	-	-	-	-	-	-	7.68	9.26	7.96	7.96	
<i>Total Organic Carbon by Lloyd Kahn Method</i>														
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	12500	201 U	328 J	946	

Notes and Abbreviations

µg/kg - microgram per kilogram

mg/kg - milligrams per kilogram

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NY Part 375 = NYS Soil Cleanup Objective (SCO) in Title 6 of Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(a).

USEPA Screening Values for PFOA and PFOS Developed by USEPA based on the Health Advisory for PFOA and PFOS of 70 nanograms per liter

 Exceedance of USEPA Screening Value

Table 2
Analytical Results for PFOA and Other PFCs, pH and TOC from Soil Samples
Oak Materials - River Road 1, 2 and 3

										Location ID:	OS-B-022	OS-B-022	OS-B-023
										Sample Date:	12/08/2016	12/08/2016	12/07/2016
										Sample Depth:	6 - 8 ft	6 ft	3 - 4 ft
										Sample Type:	N	FD	N
Constituent	Units	NY375 1UNRES	NY375 2RPGW	NY375 3RRES	NY375 4RRRES	NY375 5RCOMM	NY375 6RINDU	NY375 7PER	USEPA Screen Value				
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>													
Perfluorobutanesulfonic acid (PFBS)	µg/kg	-	-	-	-	-	-	-	-	0.59 U	0.58 U	0.58 U	
Perfluorodecanoic acid (PFDA)	µg/kg	-	-	-	-	-	-	-	-	0.24 U	0.23 U	0.23 U	
Perfluorododecanoic acid (PFDoA)	µg/kg	-	-	-	-	-	-	-	-	0.47 U	0.46 U	0.46 U	
Perfluoroheptanoic acid (PFHpA)	µg/kg	-	-	-	-	-	-	-	-	0.35 U	0.35 U	0.35 U	
Perfluorohexanesulfonic acid (PFHxS)	µg/kg	-	-	-	-	-	-	-	-	0.59 U	0.58 U	0.58 U	
Perfluorohexanoic acid (PFHxA)	µg/kg	-	-	-	-	-	-	-	-	0.24 U	0.32 J	0.23 U	
Perfluorononanoic acid (PFNA)	µg/kg	-	-	-	-	-	-	-	-	0.24 U	0.23 U	0.23 U	
Perfluorooctanesulfonic acid (PFOS)	µg/kg	-	-	-	-	-	-	-	1000	0.83 U	0.81 U	0.81 U	
Perfluorooctanoic acid (PFOA)	µg/kg	-	-	-	-	-	-	-	1000	2.6	3.2	0.35 U	
Perfluorotetradecanoic acid (PFTA)	µg/kg	-	-	-	-	-	-	-	-	0.35 U	0.35 U	0.35 U	
Perfluorotridecanoic Acid (PFTriA)	µg/kg	-	-	-	-	-	-	-	-	0.71 U	0.69 U	0.69 U	
Perfluoroundecanoic Acid (PFUnA)	µg/kg	-	-	-	-	-	-	-	-	0.35 U	0.35 U	0.35 U	
<i>pH by Standard Method 9045D</i>													
pH	pH units	-	-	-	-	-	-	-	-	7.86	8.6	6.61	
<i>Total Organic Carbon by Lloyd Kahn Method</i>													
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	1250	1370	1880	

Notes and Abbreviations

µg/kg - microgram per kilogram

mg/kg - milligrams per kilogram

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NY Part 375 = NYS Soil Cleanup Objective (SCO) in Title 6 of Official Compilation of New York Codes, Rules and Regulations (6 NYCRR)

USEPA Screening Values for PFOA and PFOS Developed by USEPA based on the Health Advisory for PFOA and PFOS of 70 nanograms per liter

 Exceedance of USEPA Screening Value

Table 3

Analytical Results for PFCs, pH and TOC from Surface Water Samples
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-SW-001	OS-SW-009	OS-SW-010
				Sample Date:	11/16/2016	11/16/2016	11/16/2016
				Sample Depth:	-	-	-
				Sample Type:	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD				
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>							
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	4 U	4 U	4 U	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	1 U	1 U	1 U	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	3 U	3 U	3 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	2 J	1 J	2 J	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	4 U	4 U	4 U	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	1 J	1 J	1 J	
Perfluorononanoic acid (PFNA)	ng/l	-	-	1 U	1 U	1 U	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	5 U	5 U	5 U	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	51	45	46	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	3 U	3 U	3 U	
Perfluorotridecanoic Acid (PFTriA)	ng/l	-	-	2 U	2 U	2 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	2 U	2 U	2 U	
<i>pH by Standard Method 9045D</i>							
pH	pH units	-	6.5 - 8.5	7.9	7.9	7.9	
<i>Total Organic Carbon by Lloyd Kahn Method</i>							
Total Organic Carbon	mg/l	-	-	3.3	3.1	3.2	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 values for Class GA groundwater.

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 4
Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater Monitoring Well Samples
Oak Materials - River Road 1, 2 and 3

Location ID: Sample Date: Sample Type:				RR-MW-001A	RR-MW-001B	RR-MW-003A	RR-MW-003B	RR-MW-004A	RR-MW-004B	RR-MW-005A	RR-MW-005A	RR-MW-005AI	RR-MW-005B	RR-MW-008A	RR-MW-010A	RR-MW-010B	RR-MW-011A	LD WATER WEI	OS-MW-001A	OS-MW-001B	OS-MW-003A	OS-MW-003B
				01/06/2017	01/06/2017	01/05/2017	01/05/2017	01/10/2017	01/10/2017	01/10/2017	01/10/2017	01/10/2017	01/05/2017	01/05/2017	01/05/2017	01/05/2017	01/05/2017	01/11/2017	01/05/2017	01/05/2017	01/05/2017	01/05/2017
				N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD																			
Metals by USEPA Method 6010B (Mercury by USEPA Method 7470)																						
Aluminum	mg/l	-	-	0.243 U	49.6	0.0868 U	0.138 J	0.0868 U	0.0868 U	0.0868 U	0.0868 U	na	21.4	2.98	0.445	42.2	0.0868 U	0.0868 U	8.27	1.59	0.245 J	21.1
Antimony	mg/l	-	0.003	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	na	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U
Arsenic	mg/l	-	0.025	0.0097 U	0.0163 J	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	na	0.0249 J	0.0097 U	0.0097 U	0.0284 J	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U
Barium	mg/l	-	1	0.0147	0.478	0.0114	0.147	0.0367 U	0.0511 U	0.0253 U	0.025 U	na	0.47	0.14	0.0186	0.573	0.031	0.0167 U	0.0777	0.135	0.017	0.372
Beryllium	mg/l	0.003	-	0.00067 U	0.0029 J	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	na	0.0015 J	0.00067 U	0.00067 U	0.0027 J	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.00067 U	0.0015 J
Cadmium	mg/l	-	0.005	0.00049 U	0.0013 J	0.00049 U	0.00049 U	0.00049 U	0.00049 U	0.00049 U	0.00049 U	na	0.00067 J	0.00049 U	0.00049 U	0.0016 J	0.00049 U	0.00049 U	0.00049 U	0.00049 U	0.00049 U	0.00097 J
Calcium	mg/l	-	-	31.3	143	27.4	77	44.7	64.9	44.7	44	na	149	68	30	190	43.8	32.6	33.8	41.7	32.7	137
Chromium	mg/l	-	0.05	0.0018 U	0.0583	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	na	0.0301	0.006 J	0.0018 U	0.0956	0.0018 U	0.0018 U	0.0097 J	0.0036 J	0.0018 U	0.0256 J
Cobalt	mg/l	-	-	0.0019 U	0.0368	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	na	0.0156	0.0026 J	0.0019 U	0.0388	0.0019 U	0.0019 U	0.0058 J	0.0019 U	0.0019 U	0.0185
Copper	mg/l	-	0.2	0.0041 U	0.107	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	0.0041 U	na	0.0896 U	0.0061 U	0.0041 U	0.162	0.0041 U	0.0041 U	0.0159 U	0.0041 U	0.0041 U	0.0868 U
Iron	mg/l	-	0.3	0.207 J	96.8	0.0747 U	0.252 J	0.0747 U	0.0816 J	0.0747 U	0.0747 U	na	46.4	16.3	0.57	91.7	0.0747 U	0.0747 U	15.9	1.96	0.304 J	40
Lead	mg/l	-	0.025	0.0062 U	0.0663	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	0.0062 U	na	0.0402	0.0103 J	0.0062 U	0.0851	0.0062 U	0.0062 U	0.0115 J	0.0062 U	0.0062 U	0.041
Magnesium	mg/l	35	-	5.41	50.9	5.08	27	7.28	13.4	7.98	7.88	na	41.7	15.5	5.63	51.8	8.2	5.55	8.8	17	5.73	38.6
Manganese	mg/l	-	0.3	0.0078 U	2.5	0.0018 U	0.183	0.0018 U	0.64	0.0018 U	0.0018 U	na	1.56	2.53	0.0541	3.92	0.0018 U	0.0079 J	0.505	0.302	0.013	2.35
Mercury	mg/l	-	0.0007	5E-05 U	0.00012 J	5E-05 U	5E-05 U	5E-05 U	5E-05 U	5E-05 U	5E-05 U	na	5E-05 U	5E-05 U	5E-05 U	0.00011 J	5E-05 U	5E-05 U	5E-05 U	5E-05 U	5E-05 U	5E-05 U
Nickel	mg/l	-	0.1	0.0028 U	0.0853	0.0028 U	0.0028 U	0.0028 U	0.0028 U	0.0028 U	0.0028 U	na	0.0394	0.0068 J	0.0028 U	0.08	0.0028 U	0.0028 U	0.0104 J	0.0028 U	0.0028 U	0.0352
Potassium	mg/l	-	-	1.02 J	10.4 J	0.831 J	1.01	1.38	1.28	1.34	1.32	na	6.53	2.16	1.17	8.46	1.45	1 J	3.39	2.64	1.37	7.09
Selenium	mg/l	-	0.01	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	na	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U
Silver	mg/l	-	0.05	0.0019 U	0.0035 J	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	na	0.0019 U	0.0019 U	0.0019 U	0.0041 J	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0019 J
Sodium	mg/l	-	20	16.3	14.2	10.5	28.2	72.8	64.5	31.8	31.4	na	43.4	58.4	13.6	19.5	31.5	11.1	13.1	69	16.8	36.6
Thallium	mg/l	0.0005	-	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	na	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U
Vanadium	mg/l	-	-	0.0016 U	0.0605	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	na	0.0266	0.0035 J	0.0016 U	0.0497	0.0016 U	0.0016 U	0.0092 J	0.0018 J	0.0016 U	0.0263
Zinc	mg/l	2	-	0.0054 U	0.236	0.0054 U	0.0054 U	0.0054 U	0.007 J	0.0054 U	0.0054 U	na	0.113	0.013 J	0.0054 U	0.26	0.0054 U	0.0054 U	0.0329 J	0.0054 U	0.0054 U	0.146
Total Cyanide by USEPA Method 9010																						
Total Cyanide (water)	mg/l	-	0.2	0.005 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.005 U	na	na
Polychlorinated Biphenyls (PCBs) by USEPA Method 8082																						
Aroclor-1016	µg/l	-	0.09	0.08 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.084 U	na	na
Aroclor-1221	µg/l	-	0.09	0.08 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.084 U	na	na
Aroclor-1232	µg/l	-	0.09	0.16 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.17 U	na	na
Aroclor-1242	µg/l	-	0.09	0.08 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.084 U	na	na
Aroclor-1248	µg/l	-	0.09	0.08 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.084 U	na	na
Aroclor-1254	µg/l	-	0.09	0.08 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.084 U	na	na
Aroclor-1260	µg/l	-	0.09	0.12 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.13 U	na	na
Aroclor-1262	µg/l	-	0.09	0.16 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.17 U	na	na
Aroclor-1268	µg/l	-	0.09	0.13 U	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.13 U	na	na
Pesticides by USEPA Method 8081																						
Aldrin	µg/l	-	-	0.0016 U	na	na	na	na	na	na	na	na										

Table 4
Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater Monitoring Well Samples
Oak Materials - River Road 1, 2 and 3

				Location ID: Sample Date: Sample Type:	RR-MW-001A 01/06/2017 N	RR-MW-001B 01/06/2017 N	RR-MW-003A 01/05/2017 N	RR-MW-003B 01/05/2017 N	RR-MW-004A 01/10/2017 N	RR-MW-004B 01/10/2017 N	RR-MW-005A 01/10/2017 FD	RR-MW-005A 01/10/2017 N	RR-MW-005AI 01/10/2017 N	RR-MW-005B 01/05/2017 N	RR-MW-008A 01/05/2017 N	RR-MW-010A 01/05/2017 N	RR-MW-010B 01/05/2017 N	RR-MW-011A 01/05/2017 N	LD WATER WEI 01/11/2017 N	OS-MW-001A 01/05/2017 N	OS-MW-001B 01/05/2017 N	OS-MW-003A 01/05/2017 N	OS-MW-003B 01/05/2017 N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD																				
2-Methylnaphthalene	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
2-Methylphenol	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
2-Nitroaniline	µg/l	-	5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
2-Nitrophenol	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
3,3'-Dichlorobenzidine	µg/l	-	5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2 U	na	na	na	na
3-Nitroaniline	µg/l	-	5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
4,6-Dinitro-2-methylphenol	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	5.1 U	na	na	na	na
4-Bromophenyl-phenylether	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
4-Chloro-3-methylphenol	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
4-Chloroaniline	µg/l	-	5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2 U	na	na	na	na
4-Chlorophenyl-phenylether	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
4-Methylphenol	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
4-Nitroaniline	µg/l	-	5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
4-Nitrophenol	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	10 U	na	na	na	na
Acenaphthene	µg/l	20	20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Acenaphthylene	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Acetophenone	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
Anthracene	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Atrazine	µg/l	-	7.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2 U	na	na	na	na
Benzaldehyde	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	1 U	na	na	na	na
Benzo(a)anthracene	µg/l	0.002	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Benzo(a)pyrene	µg/l	-	0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Benzo(b)fluoranthene	µg/l	0.002	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Benzo(g,h,i)perylene	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Benzo(k)fluoranthene	µg/l	0.002	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
bis(2-Chloroethoxy)methane	µg/l	-	5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
bis(2-Chloroethyl)ether	µg/l	-	1	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
bis(2-Ethylhexyl)phthalate	µg/l	-	5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2 U	na	na	na	na
Butylbenzylphthalate	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2 U	na	na	na	na
Caprolactam	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	5.1 U	na	na	na	na
Carbazole	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
Chrysene	µg/l	0.002	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Dibenz(a,h)anthracene	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Dibenzofuran	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
Diethylphthalate	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2 U	na	na	na	na
Dimethylphthalate	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2 U	na	na	na	na
Di-n-butylphthalate	µg/l	-	50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2 U	na	na	na	na
Di-n-octylphthalate	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	2 U	na	na	na	na
Fluoranthene	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Fluorene	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Hexachlorobenzene	µg/l	-	0.04	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Hexachlorobutadiene	µg/l	-	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
Hexachlorocyclopentadiene	µg/l	-	5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	5.1 U	na	na	na	na
Hexachloroethane	µg/l	-	5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	1 U	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/l	0.002	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Isophorone	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
Naphthalene	µg/l	10	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Nitrobenzene	µg/l	-	0.4	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
N-Nitroso-di-n-propylamine	µg/l	-	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
N-Nitrosodiphenylamine	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
Pentachlorophenol	µg/l	-	1	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	1 U	na	na	na	na
Phenanthrene	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Phenol	µg/l	-	1	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.51 U	na	na	na	na
Pyrene	µg/l	50	-	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.1 U	na	na	na	na
Volatile Organic Compounds (VOCs) by USEPA Method 8260																							
1,1,1-Trichloroethane	µg/l	-	5	na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	na	0.5 U	na	na	na	na
1,1,2,2-Tetrachloroethane	µg/l	-	5	na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	na	0.5 U	na	na	na	na
1,1,2-Trichloroethane	µg/l	-	1	na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.7 J	na	na	na	na	na	0.5 U	na	na	na	na
1,1-Dichloroethane	µg/l	-	5	na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	na	0.5 U	na	na	na	na
1,1-Dichloroethene	µg/l	-	5	na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.9 J	na	na	na	na	na	0.5 U	na	na	na	na
1,2,3-Trichlorobenzene	µg/l	-	5	na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	na	1 U	na	na	na	na
1,2,4-Trichlorobenzene	µg/l	-	5	na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	na	1 U	na	na	na	na
1,2,4-Trimethylbenzene	µg/l	-	5	na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	na	1 U	na	na	na	na
1,2-Dibromo-3-chloropropane	µg/l	-	0.04	na	na	na	na	na	na	2 U	2 U	2 U	2 U	na	na	na	na	na	2 U	na	na	na	na
1,2-Dibromoethane	µg/l	-	0.0006	na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	na	0.5 U	na	na	na	na
1,2-Dichlorobenzene	µg/l	-	3	na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	na	1 U	na	na	na	na
1,2-Dichloroethane	µg/l	-	0.6	na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	40	na	na	na	na	na	0.5 U	na	na	na	na
1,2-Dichloropropane	µg/l	-	1	na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	na	0.5 U	na	na	na	na
1,3,5-Trimethylbenzene	µg/l	-	5	na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	na	1 U	na	na	na	na
1,3-Dichlorobenzene	µg/l	-	3	na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	na	1 U	na	na	na	na
1,4-Dichlorobenzene	µg/l	-	3	na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	na	1 U	na	na	na	na
2-Butanone	µg/l	50	-	na	na	na	na	na	na	3 U	3 U	3 U	3 U	na	na	na	na	na	3 U	na	na	na	na
2-Hexanone	µg/l	50	-	na	na</																		

Table 4
Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater Monitoring Well Samples
Oak Materials - River Road 1, 2 and 3

				Location ID: Sample Date: Sample Type:	RR-MW-001A 01/06/2017 N	RR-MW-001B 01/06/2017 N	RR-MW-003A 01/05/2017 N	RR-MW-003B 01/05/2017 N	RR-MW-004A 01/10/2017 N	RR-MW-004B 01/10/2017 N	RR-MW-005A 01/10/2017 FD	RR-MW-005A 01/10/2017 N	RR-MW-005AI 01/10/2017 N	RR-MW-005B 01/05/2017 N	RR-MW-008A 01/05/2017 N	RR-MW-010A 01/05/2017 N	RR-MW-010B 01/05/2017 N	RR-MW-011A 01/05/2017 N	LD WATER WEI 01/11/2017 N	OS-MW-001A 01/05/2017 N	OS-MW-001B 01/05/2017 N	OS-MW-003A 01/05/2017 N	OS-MW-003B 01/05/2017 N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD																				
Acetone	µg/l	50	-		na	na	na	na	na	na	6 U	6 U	6 U	6 U	na	na	na	na	6 U	na	na	na	na
Benzene	µg/l	-	1		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Bromochloromethane	µg/l	-	5		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
Bromodichloromethane	µg/l	50	-		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Bromoform	µg/l	50	-		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Bromomethane	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Carbon Disulfide	µg/l	60	-		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
Carbon Tetrachloride	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Chlorobenzene	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Chloroethane	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Chloroform	µg/l	-	7		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Chloromethane	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
cis-1,2-Dichloroethene	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
cis-1,3-Dichloropropene	µg/l	-	0.4		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Cyclohexane	µg/l	-	-		na	na	na	na	na	na	2 U	2 U	2 U	2 U	na	na	na	na	2 U	na	na	na	na
Dibromochloromethane	µg/l	50	-		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Dichlorodifluoromethane	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Ethylbenzene	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Freon 113	µg/l	-	5		na	na	na	na	na	na	2 U	2 U	2 U	2 U	na	na	na	na	2 U	na	na	na	na
Isopropylbenzene (Cumene)	ug/l	-	5		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
m+p-Xylene	ug/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Methyl Acetate	ug/l	-	-		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
Methyl Tertiary Butyl Ether (MTBE)	ug/l	10	-		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	1	na	na	na	na	0.5 U	na	na	na	na
Methylcyclohexane	µg/l	-	-		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
Methylene Chloride	µg/l	-	5		na	na	na	na	na	na	2 U	2 U	2 U	2 U	na	na	na	na	2 U	na	na	na	na
n-Butylbenzene	µg/l	-	5		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
n-Propylbenzene	µg/l	-	50		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
o-Xylene	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
p-Isopropyltoluene	µg/l	-	5		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
sec-Butylbenzene	µg/l	-	5		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
Styrene	µg/l	-	5		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
tert-Butylbenzene	µg/l	-	5		na	na	na	na	na	na	1 U	1 U	1 U	1 U	na	na	na	na	1 U	na	na	na	na
Tetrachloroethene	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Toluene	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
trans-1,2-Dichloroethene	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
trans-1,3-Dichloropropene	µg/l	-	0.4		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Trichloroethene	µg/l	-	5		na	na	na	na	na	na	1	1	1	0.5 U	na	na	na	na	0.5 U	na	na	na	na
Trichlorofluoromethane	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 UJ	na	na	na	na	0.5 U	na	na	na	na
Vinyl Chloride	µg/l	-	2		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	370	na	na	na	na	0.5 U	na	na	na	na
Xylene (Total)	µg/l	-	5		na	na	na	na	na	na	0.5 U	0.5 U	0.5 U	0.5 U	na	na	na	na	0.5 U	na	na	na	na

Notes and Abbreviations
µg/L - micrograms per liter
mg/L - milligrams per liter
I - Samples with location IDs ending in "I" were collected using inertial pump
U - Compound not detected
J - Estimated value
N - Primary sample
FD - Field duplicate sample
na - Sample not analyzed for this parameter
Bold value indicates detected value
Shaded value indicates value equal to, or greater than, standard or guidance
NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 values for Class GA

Exceedance of NYS GA Guidance

Exceedance of NYS GA Standard

Table 4
Analytical Results for PFOA and Other PFCs, pH and TOC from Ground
Oak Materials - River Road 1, 2 and 3

				Location ID: Sample Date: Sample Type:	OS-MW-004A 01/05/2017 N	OS-MW-004B 01/05/2017 N	OS-MW-005A 01/05/2017 N	OS-MW-005B 01/05/2017 N	OS-MW-007A 01/10/2017 N	OS-MW-007B 01/10/2017 N	OS-MW-009A 01/11/2017 N	OS-MW-009B 01/11/2017 N	OS-MW-011B 01/11/2017 FD	OS-MW-011B 01/11/2017 N	OS-MW-016A 01/10/2017 N	OS-MW-016AI 01/10/2017 N	OS-MW-020A 01/10/2017 N	OS-MW-020B 01/11/2017 N	OS-MW-021A 01/11/2017 N	OS-MW-021AI 01/11/2017 N	OS-MW-021B 01/11/2017 N	OS-MW-022A 01/11/2017 N	OS-MW-023A 01/10/2017 N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD																				
Acetone	µg/l	50	-		na	na	na	na	na	na	na	na	na	na	6 U	6 U	na	na	6 U	6 U	na	6 U	6 U
Benzene	µg/l	-	1		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Bromochloromethane	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
Bromodichloromethane	µg/l	50	-		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Bromoform	µg/l	50	-		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Bromomethane	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Carbon Disulfide	µg/l	60	-		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
Carbon Tetrachloride	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Chlorobenzene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Chloroethane	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Chloroform	µg/l	-	7		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Chloromethane	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
cis-1,2-Dichloroethene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
cis-1,3-Dichloropropene	µg/l	-	0.4		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Cyclohexane	µg/l	-	-		na	na	na	na	na	na	na	na	na	na	2 U	2 U	na	na	2 U	2 U	na	2 U	2 U
Dibromochloromethane	µg/l	50	-		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Dichlorodifluoromethane	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Ethylbenzene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Freon 113	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	2 U	2 U	na	na	2 U	2 U	na	2 U	2 U
Isopropylbenzene (Cumene)	ug/l	-	5		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
m+p-Xylene	ug/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Methyl Acetate	ug/l	-	-		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
Methyl Tertiary Butyl Ether (MTBE)	ug/l	10	-		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Methylcyclohexane	µg/l	-	-		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
Methylene Chloride	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	2 U	2 U	na	na	2 U	2 U	na	2 U	2 U
n-Butylbenzene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
n-Propylbenzene	µg/l	-	50		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
o-Xylene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
p-Isopropyltoluene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
sec-Butylbenzene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
Styrene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
tert-Butylbenzene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	1 U	1 U	na	na	1 U	1 U	na	1 U	1 U
Tetrachloroethene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Toluene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
trans-1,2-Dichloroethene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
trans-1,3-Dichloropropene	µg/l	-	0.4		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Trichloroethene	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.9 J
Trichlorofluoromethane	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Vinyl Chloride	µg/l	-	2		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U
Xylene (Total)	µg/l	-	5		na	na	na	na	na	na	na	na	na	na	0.5 U	0.5 U	na	na	0.5 U	0.5 U	na	0.5 U	0.5 U

Notes and Abbreviations
µg/L - micrograms per liter
mg/L - milligrams per liter
I - Samples with location IDs ending in "I" were collected using inertial pun
U - Compound not detected
J - Estimated value
N - Primary sample
FD - Field duplicate sample
na - Sample not analyzed for this parameter
Bold value indicates detected value
Shaded value indicates value equal to, or greater than, standard or guidanc
NYSDEC TOGS111 - Standards listed are the New York State Department
of Environmental Conservation (NYSDEC) Division of Water Technical
and Operational Guidance Series (TOGS) 1.1.1 values for Class GA

Exceedance of NYS GA Guidance

Exceedance of NYS GA Standard

Table 4
Analytical Results for PFOA and Other PFCs, pH and TOC from Ground
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-MW-023AI	OS-MW-029A
				Sample Date:	01/10/2017	01/10/2017
				Sample Type:	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD			
Metals by USEPA Method 6010B (Mercury by USEPA Method 7470)						
Aluminum	mg/l	-	-	na		21.7
Antimony	mg/l	-	0.003	na		0.0077 U
Arsenic	mg/l	-	0.025	na		0.0123 J
Barium	mg/l	-	1	na		0.707
Beryllium	mg/l	0.003	-	na		0.0019 J
Cadmium	mg/l	-	0.005	na		0.0011 J
Calcium	mg/l	-	-	na		205
Chromium	mg/l	-	0.05	na		0.0204 J
Cobalt	mg/l	-	-	na		0.0353
Copper	mg/l	-	0.2	na		0.104
Iron	mg/l	-	0.3	na		37.5
Lead	mg/l	-	0.025	na		0.0508
Magnesium	mg/l	35	-	na		44.8
Manganese	mg/l	-	0.3	na		3.1
Mercury	mg/l	-	0.0007	na		5E-05 U
Nickel	mg/l	-	0.1	na		0.0461
Potassium	mg/l	-	-	na		6.23
Selenium	mg/l	-	0.01	na		0.0097 U
Silver	mg/l	-	0.05	na		0.0019 U
Sodium	mg/l	-	20	na		114
Thallium	mg/l	0.0005	-	na		0.0094 U
Vanadium	mg/l	-	-	na		0.0289
Zinc	mg/l	2	-	na		0.154
Total Cyanide by USEPA Method 9010						
Total Cyanide (water)	mg/l	-	0.2	na		na
Polychlorined Biphenyls (PCBs) by USEPA Method 8082						
Aroclor-1016	µg/l	-	0.09	na		na
Aroclor-1221	µg/l	-	0.09	na		na
Aroclor-1232	µg/l	-	0.09	na		na
Aroclor-1242	µg/l	-	0.09	na		na
Aroclor-1248	µg/l	-	0.09	na		na
Aroclor-1254	µg/l	-	0.09	na		na
Aroclor-1260	µg/l	-	0.09	na		na
Aroclor-1262	µg/l	-	0.09	na		na
Aroclor-1268	µg/l	-	0.09	na		na
Pesticides by USEPA Method 8081						
Aldrin	µg/l	-	-	na		na
Alpha BHC	µg/l	-	0.01	na		na
Alpha Chlordane	µg/l	-	-	na		na
Beta BHC	µg/l	-	0.04	na		na
Delta BHC	µg/l	-	0.04	na		na
Dieldrin	µg/l	-	0.004	na		na
Endosulfan I	µg/l	-	-	na		na
Endosulfan II	µg/l	-	-	na		na
Endosulfan Sulfate	µg/l	-	-	na		na
Endrin	µg/l	-	0	na		na
Endrin Aldehyde	µg/l	-	5	na		na
Endrin Ketone	µg/l	-	5	na		na
Gamma Chlordane	µg/l	-	-	na		na
gamma-BHC (Lindane)	µg/l	-	0.04	na		na
Heptachlor	µg/l	-	0.04	na		na
Heptachlor Epoxide	µg/l	-	0.03	na		na
Methoxychlor	µg/l	-	35	na		na
p,p-DDD	µg/l	-	0.3	na		na
p,p-DDE	µg/l	-	0.2	na		na
p,p-DDT	µg/l	-	0.2	na		na
Toxaphene	µg/l	-	0.06	na		na
Semivolatile Organic Compounds (SVOCs) by USEPA Method 8270						
1,1'-Biphenyl	µg/l	-	5	na		na
1,2,4,5-Tetrachlorobenzene	µg/l	-	5	na		na
1,4-Dioxane	µg/l	-	-	na		na
2,2'-oxybis(1-Chloropropane)	µg/l	-	5	na		na
2,3,4,6-Tetrachlorophenol	µg/l	-	-	na		na
2,4,5-Trichlorophenol	µg/l	-	-	na		na
2,4,6-Trichlorophenol	µg/l	-	-	na		na
2,4-Dichlorophenol	µg/l	-	1	na		na
2,4-Dimethylphenol	µg/l	50	1	na		na
2,4-Dinitrophenol	µg/l	-	1	na		na
2,4-Dinitrotoluene	µg/l	-	5	na		na
2,6-Dinitrotoluene	µg/l	-	5	na		na
2-Chloronaphthalene	µg/l	10	-	na		na
2-Chlorophenol	µg/l	-	-	na		na

Table 4
Analytical Results for PFOA and Other PFCs, pH and TOC from Ground
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-MW-023AI	OS-MW-029A
				Sample Date:	01/10/2017	01/10/2017
				Sample Type:	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD			
2-Methylnaphthalene	µg/l	-	-	na	na	
2-Methylphenol	µg/l	-	-	na	na	
2-Nitroaniline	µg/l	-	5	na	na	
2-Nitrophenol	µg/l	-	-	na	na	
3,3'-Dichlorobenzidine	µg/l	-	5	na	na	
3-Nitroaniline	µg/l	-	5	na	na	
4,6-Dinitro-2-methylphenol	µg/l	-	-	na	na	
4-Bromophenyl-phenylether	µg/l	-	-	na	na	
4-Chloro-3-methylphenol	µg/l	-	-	na	na	
4-Chloroaniline	µg/l	-	5	na	na	
4-Chlorophenyl-phenylether	µg/l	-	-	na	na	
4-Methylphenol	µg/l	-	-	na	na	
4-Nitroaniline	µg/l	-	5	na	na	
4-Nitrophenol	µg/l	-	-	na	na	
Acenaphthene	µg/l	20	20	na	na	
Acenaphthylene	µg/l		-	na	na	
Acetophenone	µg/l		-	na	na	
Anthracene	µg/l	50		na	na	
Atrazine	µg/l		7.5	na	na	
Benzaldehyde	µg/l		-	na	na	
Benzo(a)anthracene	µg/l	0.002	-	na	na	
Benzo(a)pyrene	µg/l	-	0	na	na	
Benzo(b)fluoranthene	µg/l	0.002	-	na	na	
Benzo(g,h,i)perylene	µg/l	-	-	na	na	
Benzo(k)fluoranthene	µg/l	0.002	-	na	na	
bis(2-Chloroethoxy)methane	µg/l	-	5	na	na	
bis(2-Chloroethyl)ether	µg/l	-	1	na	na	
bis(2-Ethylhexyl)phthalate	µg/l	-	5	na	na	
Butylbenzylphthalate	µg/l	50	-	na	na	
Caprolactam	µg/l	-	-	na	na	
Carbazole	µg/l	-	-	na	na	
Chrysene	µg/l	0.002	-	na	na	
Dibenz(a,h)anthracene	µg/l	-	-	na	na	
Dibenzofuran	µg/l	-	-	na	na	
Diethylphthalate	µg/l	50	-	na	na	
Dimethylphthalate	µg/l	50	-	na	na	
Di-n-butylphthalate	µg/l	-	50	na	na	
Di-n-octylphthalate	µg/l	50	-	na	na	
Fluoranthene	µg/l	50	-	na	na	
Fluorene	µg/l	50	-	na	na	
Hexachlorobenzene	µg/l	-	0.04	na	na	
Hexachlorobutadiene	µg/l	-	0.5	na	na	
Hexachlorocyclopentadiene	µg/l	-	5	na	na	
Hexachloroethane	µg/l	-	5	na	na	
Indeno(1,2,3-cd)pyrene	µg/l	0.002	-	na	na	
Isophorone	µg/l	50	-	na	na	
Naphthalene	µg/l	10	-	na	na	
Nitrobenzene	µg/l	-	0.4	na	na	
N-Nitroso-di-n-propylamine	µg/l	-	-	na	na	
N-Nitrosodiphenylamine	µg/l	50	-	na	na	
Pentachlorophenol	µg/l	-	1	na	na	
Phenanthrene	µg/l	50	-	na	na	
Phenol	µg/l	-	1	na	na	
Pyrene	µg/l	50	-	na	na	
Volatile Organic Compounds (VOCs) by USEPA Method 8260						
1,1,1-Trichloroethane	µg/l	-	5	0.5 U	na	
1,1,2,2-Tetrachloroethane	µg/l	-	5	0.5 U	na	
1,1,2-Trichloroethane	µg/l	-	1	0.5 U	na	
1,1-Dichloroethane	µg/l	-	5	0.5 U	na	
1,1-Dichloroethene	µg/l	-	5	0.5 U	na	
1,2,3-Trichlorobenzene	µg/l	-	5	1 U	na	
1,2,4-Trichlorobenzene	µg/l	-	5	1 U	na	
1,2,4-Trimethylbenzene	µg/l	-	5	1 U	na	
1,2-Dibromo-3-chloropropane	µg/l	-	0.04	2 U	na	
1,2-Dibromoethane	µg/l	-	0.0006	0.5 U	na	
1,2-Dichlorobenzene	µg/l	-	3	1 U	na	
1,2-Dichloroethane	µg/l	-	0.6	0.5 U	na	
1,2-Dichloropropane	µg/l	-	1	0.5 U	na	
1,3,5-Trimethylbenzene	µg/l	-	5	1 U	na	
1,3-Dichlorobenzene	µg/l	-	3	1 U	na	
1,4-Dichlorobenzene	µg/l	-	3	1 U	na	
2-Butanone	µg/l	50	-	3 U	na	
2-Hexanone	µg/l	50	-	3 U	na	
4-Methyl-2-pentanone	µg/l	-	-	3 U	na	

Table 4
Analytical Results for PFOA and Other PFCs, pH and TOC from Ground
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-MW-023AI	OS-MW-029A
				Sample Date:	01/10/2017	01/10/2017
				Sample Type:	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD			
Acetone	µg/l	50	-	6 U	na	
Benzene	µg/l	-	1	0.5 U	na	
Bromochloromethane	µg/l	-	5	1 U	na	
Bromodichloromethane	µg/l	50	-	0.5 U	na	
Bromoform	µg/l	50	-	0.5 U	na	
Bromomethane	µg/l	-	5	0.5 U	na	
Carbon Disulfide	µg/l	60	-	1 U	na	
Carbon Tetrachloride	µg/l	-	5	0.5 U	na	
Chlorobenzene	µg/l	-	5	0.5 U	na	
Chloroethane	µg/l	-	5	0.5 U	na	
Chloroform	µg/l	-	7	0.5 U	na	
Chloromethane	µg/l	-	5	0.5 U	na	
cis-1,2-Dichloroethene	µg/l	-	5	0.5 U	na	
cis-1,3-Dichloropropene	µg/l	-	0.4	0.5 U	na	
Cyclohexane	µg/l	-	-	2 U	na	
Dibromochloromethane	µg/l	50	-	0.5 U	na	
Dichlorodifluoromethane	µg/l	-	5	0.5 U	na	
Ethylbenzene	µg/l	-	5	0.5 U	na	
Freon 113	µg/l	-	5	2 U	na	
Isopropylbenzene (Cumene)	ug/l	-	5	1 U	na	
m+p-Xylene	ug/l	-	5	0.5 U	na	
Methyl Acetate	ug/l	-	-	1 U	na	
Methyl Tertiary Butyl Ether (MTBE)	ug/l	10	-	0.5 U	na	
Methylcyclohexane	µg/l	-	-	1 U	na	
Methylene Chloride	µg/l	-	5	2 U	na	
n-Butylbenzene	µg/l	-	5	1 U	na	
n-Propylbenzene	µg/l	-	50	1 U	na	
o-Xylene	µg/l	-	5	0.5 U	na	
p-Isopropyltoluene	µg/l	-	5	1 U	na	
sec-Butylbenzene	µg/l	-	5	1 U	na	
Styrene	µg/l	-	5	1 U	na	
tert-Butylbenzene	µg/l	-	5	1 U	na	
Tetrachloroethene	µg/l	-	5	0.5 U	na	
Toluene	µg/l	-	5	0.5 U	na	
trans-1,2-Dichloroethene	µg/l	-	5	0.5 U	na	
trans-1,3-Dichloropropene	µg/l	-	0.4	0.5 U	na	
Trichloroethene	µg/l	-	5	0.8 J	na	
Trichlorofluoromethane	µg/l	-	5	0.5 U	na	
Vinyl Chloride	µg/l	-	2	0.5 U	na	
Xylene (Total)	µg/l	-	5	0.5 U	na	

Notes and Abbreviations
µg/L - micrograms per liter
mg/L - milligrams per liter
I - Samples with location IDs ending in "I" were collected using inertial pun
U - Compound not detected
J - Estimated value
N - Primary sample
FD - Field duplicate sample
na - Sample not analyzed for this parameter
Bold value indicates detected value
Shaded value indicates value equal to, or greater than, standard or guidanc
NYSDEC TOGS111 - Standards listed are the New York State Department
of Environmental Conservation (NYSDEC) Division of Water Technical
and Operational Guidance Series (TOGS) 1.1.1 values for Class GA
Exceedance of NYS GA Guidance
Exceedance of NYS GA Standard

Table 5
Analytical Results for Other Parameters from Surface Water Samples
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-SW-001	OS-SW-009	OS-SW-010
				Sample Date:	11/16/2016	11/16/2016	11/16/2016
				Sample Depth:	-	-	-
				Sample Type:	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD				
<i>Metals by USEPA Method 6010B (Mercury by USEPA Method 7470)</i>							
Aluminum	mg/l	-	-	0.0868 U	0.0868 U	0.0868 U	
Antimony	mg/l	-	0.003	0.0077 U	0.0077 U	0.0077 U	
Arsenic	mg/l	-	0.025	0.0097 U	0.0097 U	0.0097 U	
Barium	mg/l	-	1	0.0146	0.0157	0.0148	
Beryllium	mg/l	0.003	-	0.00067 U	0.00067 U	0.00067 U	
Cadmium	mg/l	-	0.005	0.00049 U	0.00049 U	0.00049 U	
Calcium	mg/l	-	-	32.9	34.9	33.7	
Chromium	mg/l	-	0.05	0.0018 U	0.0018 U	0.0018 U	
Cobalt	mg/l	-	-	0.0019 U	0.0019 U	0.0019 U	
Copper	mg/l	-	0.2	0.0041 U	0.0041 U	0.0041 U	
Iron	mg/l	-	0.3	0.0747 U	0.0747 U	0.0747 U	
Lead	mg/l	-	0.025	0.0062 U	0.0062 U	0.0062 U	
Magnesium	mg/l	35	-	5.84	6.19	5.97	
Manganese	mg/l	-	0.3	0.0024 U	0.0018 U	0.0023 U	
Mercury	mg/l	-	0.0007	5E-05 U	5E-05 U	5E-05 U	
Nickel	mg/l	-	0.1	0.0028 U	0.0028 U	0.0028 U	
Potassium	mg/l	-	-	1.29	1.42	1.37	
Selenium	mg/l	-	0.01	0.0097 U	0.0097 U	0.0097 U	
Silver	mg/l	-	0.05	0.0019 U	0.0019 U	0.0019 U	
Sodium	mg/l	-	20	12.3	13.1	12.7	
Thallium	mg/l	0.0005	-	0.0094 U	0.0094 U	0.0094 U	
Vanadium	mg/l	-	-	0.0016 U	0.0016 U	0.0016 U	
Zinc	mg/l	2	-	0.0054 U	0.0054 U	0.0054 U	
<i>Total Cyanide by USEPA Method 9010</i>							
Total Cyanide (water)	mg/l	-	0.2	0.005 U	0.005 U	0.005 U	
<i>Polychlorinated Biphenyls (PCBs) by USEPA Method 8082</i>							
Aroclor-1016	µg/l	-	0.09	0.085 U	0.081 U	0.09 U	
Aroclor-1221	µg/l	-	0.09	0.085 U	0.081 U	0.09 U	
Aroclor-1232	µg/l	-	0.09	0.17 U	0.16 U	0.18 U	
Aroclor-1242	µg/l	-	0.09	0.085 U	0.081 U	0.09 U	
Aroclor-1248	µg/l	-	0.09	0.085 U	0.081 U	0.09 U	
Aroclor-1254	µg/l	-	0.09	0.085 U	0.081 U	0.09 U	
Aroclor-1260	µg/l	-	0.09	0.13 U	0.12 U	0.13 U	
Aroclor-1262	µg/l	-	0.09	0.17 U	0.16 U	0.18 U	
Aroclor-1268	µg/l	-	0.09	0.14 U	0.13 U	0.14 U	
<i>Pesticides by USEPA Method 8081</i>							

Table 5

Analytical Results for Other Parameters from Surface Water Samples
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-SW-001	OS-SW-009	OS-SW-010
				Sample Date:	11/16/2016	11/16/2016	11/16/2016
				Sample Depth:	-	-	-
				Sample Type:	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD				
Aldrin	µg/l	-	-	0.0017 UJ	0.0016 U	0.0018 UJ	
Alpha BHC	µg/l	-	0.01	0.0026 UJ	0.0024 U	0.0027 UJ	
Alpha Chlordane	µg/l	-	-	0.0026 UJ	0.0024 U	0.0027 UJ	
Beta BHC	µg/l	-	0.04	0.0029 UJ	0.0028 U	0.003 UJ	
Delta BHC	µg/l	-	0.04	0.0029 UJ	0.0028 U	0.003 UJ	
Dieldrin	µg/l	-	0.004	0.0045 UJ	0.0043 U	0.0048 UJ	
Endosulfan I	µg/l	-	-	0.0037 UJ	0.0035 U	0.0039 UJ	
Endosulfan II	µg/l	-	-	0.013 UJ	0.012 U	0.013 UJ	
Endosulfan Sulfate	µg/l	-	-	0.005 UJ	0.0047 U	0.0052 UJ	
Endrin	µg/l	-	0	0.0069 UJ	0.0066 U	0.0073 UJ	
Endrin Aldehyde	µg/l	-	5	0.017 UJ	0.016 U	0.018 UJ	
Endrin Ketone	µg/l	-	5	0.0043 UJ	0.0041 U	0.0045 UJ	
Gamma Chlordane	µg/l	-	-	0.006 UJ	0.0057 U	0.0063 UJ	
Gamma BHC - Lindane	µg/l	-	0.04	0.0017 UJ	0.0016 U	0.0018 UJ	
Heptachlor	µg/l	-	0.04	0.0017 UJ	0.0016 U	0.0018 UJ	
Heptachlor Epoxide	µg/l	-	0.03	0.002 UJ	0.0019 U	0.0021 UJ	
Methoxychlor	µg/l	-	35	0.026 UJ	0.024 U	0.027 UJ	
p,p-DDD	µg/l	-	0.3	0.0043 UJ	0.0041 U	0.0045 UJ	
p,p-DDE	µg/l	-	0.2	0.0043 UJ	0.0041 U	0.0045 UJ	
p,p-DDT	µg/l	-	0.2	0.0044 UJ	0.0042 U	0.0047 UJ	
Toxaphene	µg/l	-	0.06	0.26 UJ	0.24 U	0.27 UJ	
<i>Semivolatile Organic Compounds (SVOCs) by USEPA Method 8270</i>							
1,1'-Biphenyl	µg/l	-	5	0.54 U	0.52 U	0.58 U	
1,2,4,5-Tetrachlorobenzene	µg/l	-	5	0.54 U	0.52 U	0.58 U	
1,4-Dioxane	µg/l	-	-	1.1 UJ	1 UJ	1.2 UJ	
2,2'-oxybis(1-Chloropropane)	µg/l	-	5	0.54 U	0.52 U	0.58 U	
2,3,4,6-Tetrachlorophenol	µg/l	-	-	0.54 UJ	0.52 UJ	0.58 UJ	
2,4,5-Trichlorophenol	µg/l	-	-	0.54 UJ	0.52 UJ	0.58 UJ	
2,4,6-Trichlorophenol	µg/l	-	-	0.54 UJ	0.52 UJ	0.58 UJ	
2,4-Dichlorophenol	µg/l	-	1	0.54 UJ	0.52 UJ	0.58 UJ	
2,4-Dimethylphenol	µg/l	50	1	0.54 UJ	0.52 UJ	0.58 UJ	
2,4-Dinitrophenol	µg/l	-	1	11 UJ	10 UJ	12 UJ	
2,4-Dinitrotoluene	µg/l	-	5	1.1 U	1 U	1.2 U	
2,6-Dinitrotoluene	µg/l	-	5	0.54 U	0.52 U	0.58 U	
2-Chloronaphthalene	µg/l	-	-	0.43 U	0.41 U	0.47 U	
2-Chlorophenol	µg/l	-	-	0.54 UJ	0.52 UJ	0.58 UJ	
2-Methylnaphthalene	µg/l	-	-	0.11 U	0.1 U	0.12 U	

Table 5

Analytical Results for Other Parameters from Surface Water Samples
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-SW-001	OS-SW-009	OS-SW-010
				Sample Date:	11/16/2016	11/16/2016	11/16/2016
				Sample Depth:	-	-	-
				Sample Type:	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD				
2-Methylphenol	µg/l	-	-	0.54 UJ	0.52 UJ	0.58 UJ	
2-Nitroaniline	µg/l	-	5	0.54 U	0.52 U	0.58 U	
2-Nitrophenol	µg/l	-	-	0.54 UJ	0.52 UJ	0.58 UJ	
3,3'-Dichlorobenzidine	µg/l	-	5	2.1 UJ	2.1 UJ	2.3 UJ	
3-Nitroaniline	µg/l	-	5	0.54 U	0.52 U	0.58 U	
4,6-Dinitro-2-methylphenol	µg/l	-	-	5.4 UJ	5.2 UJ	5.8 UJ	
4-Bromophenyl-phenylether	µg/l	-	-	0.54 U	0.52 U	0.58 U	
4-Chloro-3-methylphenol	µg/l	-	-	0.54 UJ	0.52 UJ	0.58 UJ	
4-Chloroaniline	µg/l	-	5	2.1 UJ	2.1 UJ	2.3 UJ	
4-Chlorophenyl-phenylether	µg/l	-	-	0.54 U	0.52 U	0.58 U	
4-Methylphenol	µg/l	-	-	0.54 UJ	0.52 UJ	0.58 UJ	
4-Nitroaniline	µg/l	-	5	0.54 U	0.52 U	0.58 U	
4-Nitrophenol	µg/l	-	-	11 UJ	10 UJ	12 UJ	
Acenaphthene	µg/l	20	20	0.11 U	0.1 U	0.12 U	
Acenaphthylene	µg/l	-	-	0.11 U	0.1 U	0.12 U	
Acetophenone	µg/l	-	-	0.54 UJ	0.52 UJ	0.58 UJ	
Anthracene	µg/l	50	-	0.11 U	0.1 U	0.12 U	
Atrazine	µg/l	-	7.5	2.1 U	2.1 U	2.3 U	
Benzaldehyde	µg/l	-	-	1.1 UJ	1 UJ	1.2 UJ	
Benzo(a)anthracene	µg/l	0.002	-	0.11 U	0.1 U	0.12 U	
Benzo(a)pyrene	µg/l	-	0	0.11 U	0.1 U	0.12 U	
Benzo(b)fluoranthene	µg/l	0.002	-	0.11 U	0.1 U	0.12 U	
Benzo(g,h,i)perylene	µg/l	-	-	0.11 U	0.1 U	0.12 U	
Benzo(k)fluoranthene	µg/l	0.002	-	0.11 U	0.1 U	0.12 U	
bis(2-Chloroethoxy)methane	µg/l	-	5	0.54 U	0.52 U	0.58 U	
bis(2-Chloroethyl)ether	µg/l	-	1	0.54 UJ	0.52 UJ	0.58 UJ	
bis(2-Ethylhexyl)phthalate	µg/l	-	5	2.1 U	2.1 U	2.3	
Butylbenzylphthalate	µg/l	50	-	2.1 U	2.1 U	2.3 U	
Caprolactam	µg/l	-	-	5.4 UJ	5.2 UJ	5.8 UJ	
Carbazole	µg/l	-	-	0.54 U	0.52 U	0.58 U	
Chrysene	µg/l	0.002	-	0.11 U	0.1 U	0.12 U	
Dibenz(a,h)anthracene	µg/l	-	-	0.11 U	0.1 U	0.12 U	
Dibenzofuran	µg/l	-	-	0.54 U	0.52 U	0.58 U	
Diethylphthalate	µg/l	50	-	2.1 U	2.1 U	2.3 U	
Dimethylphthalate	µg/l	50	-	2.1 U	2.1 U	2.3 U	
Di-n-butylphthalate	µg/l	-	50	2.1 U	2.1 U	2.3 U	
Di-n-octylphthalate	µg/l	50	-	2.1 U	2.1 U	2.3 U	

Table 5
Analytical Results for Other Parameters from Surface Water Samples
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-SW-001	OS-SW-009	OS-SW-010
				Sample Date:	11/16/2016	11/16/2016	11/16/2016
				Sample Depth:	-	-	-
				Sample Type:	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD				
Fluoranthene	µg/l	50	-	0.11 U	0.1 U	0.12 U	
Fluorene	µg/l	50	-	0.11 U	0.1 U	0.12 U	
Hexachlorobenzene	µg/l	-	0.04	0.11 U	0.1 U	0.12 U	
Hexachlorobutadiene	µg/l	-	0.5	0.54 UJ	0.52 UJ	0.58 UJ	
Hexachlorocyclopentadiene	µg/l	-	5	5.4 UJ	5.2 UJ	5.8 UJ	
Hexachloroethane	µg/l	-	5	1.1 UJ	1 UJ	1.2 UJ	
Indeno(1,2,3-cd)pyrene	µg/l	0.002	-	0.11 U	0.1 U	0.12 U	
Isophorone	µg/l	50	-	0.54 UJ	0.52 UJ	0.58 UJ	
Naphthalene	µg/l	10	-	0.11 U	0.1 U	0.12 U	
Nitrobenzene	µg/l	-	0.4	0.54 UJ	0.52 UJ	0.58 UJ	
N-Nitroso-di-n-propylamine	µg/l	-	-	0.54 U	0.52 U	0.58 U	
N-Nitrosodiphenylamine	µg/l	50	-	0.54 U	0.52 U	0.58 U	
Pentachlorophenol	µg/l	-	1	1.1 UJ	1 UJ	1.2 UJ	
Phenanthrene	µg/l	50	-	0.11 U	0.1 U	0.12 U	
Phenol	µg/l	-	1	0.54 UJ	0.52 UJ	0.58 UJ	
Pyrene	µg/l	50	-	0.11 U	0.1 U	0.12 U	
Volatile Organic Compounds (VOCs) by USEPA Method 8260							
1,1,1-Trichloroethane	µg/l	-	5	0.5 U	0.5 U	0.5 U	
1,1,2,2-Tetrachloroethane	µg/l	-	5	0.5 U	0.5 U	0.5 U	
1,1,2-Trichloroethane	µg/l	-	1	0.5 U	0.5 U	0.5 U	
1,1-Dichloroethane	µg/l	-	5	0.5 U	0.5 U	0.5 U	
1,1-Dichloroethene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
1,2,3-Trichlorobenzene	µg/l	-	5	1 U	1 U	1 U	
1,2,4-Trichlorobenzene	µg/l	-	5	1 U	1 U	1 U	
1,2,4-Trimethylbenzene	µg/l	-	5	1 U	1 U	1 U	
1,2-Dibromo-3-chloropropane	µg/l	-	0.04	2 U	2 U	2 U	
1,2-Dibromoethane	µg/l	-	0.0006	0.5 U	0.5 U	0.5 U	
1,2-Dichlorobenzene	µg/l	-	3	1 U	1 U	1 U	
1,2-Dichloroethane	µg/l	-	0.6	0.5 U	0.5 U	0.5 U	
1,2-Dichloropropane	µg/l	-	1	0.5 U	0.5 U	0.5 U	
1,3,5-Trimethylbenzene	µg/l	-	5	1 U	1 U	1 U	
1,3-Dichlorobenzene	µg/l	-	3	1 U	1 U	1 U	
1,4-Dichlorobenzene	µg/l	-	3	1 U	1 U	1 U	
2-Butanone	µg/l	50	-	3 U	3 U	3 U	
2-Hexanone	µg/l	50	-	3 U	3 U	3 U	
4-Methyl-2-pentanone	µg/l	-	-	3 U	3 U	3 U	
Acetone	µg/l	50	-	6 U	6 U	6 U	

Table 5

Analytical Results for Other Parameters from Surface Water Samples
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-SW-001	OS-SW-009	OS-SW-010
				Sample Date:	11/16/2016	11/16/2016	11/16/2016
				Sample Depth:	-	-	-
				Sample Type:	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD				
Benzene	µg/l	-	1	0.5 U	0.5 U	0.5 U	
Bromochloromethane	µg/l	-	5	1 U	1 U	1 U	
Bromodichloromethane	µg/l	50	-	0.5 U	0.5 U	0.5 U	
Bromoform	µg/l	50	-	0.5 U	0.5 U	0.5 U	
Bromomethane	µg/l	-	5	0.5 U	0.5 U	0.5 U	
Carbon Disulfide	µg/l	60	-	1 U	1 U	1 U	
Carbon Tetrachloride	µg/l	-	5	0.5 U	0.5 U	0.5 U	
Chlorobenzene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
Chloroethane	µg/l	-	5	0.5 U	0.5 U	0.5 U	
Chloroform	µg/l	-	7	0.5 U	0.5 U	0.5 U	
Chloromethane	µg/l	-	5	0.5 U	0.5 U	0.5 U	
cis-1,2-Dichloroethene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
cis-1,3-Dichloropropene	µg/l	-	0.4	0.5 U	0.5 U	0.5 U	
Cyclohexane	µg/l	-	-	2 U	2 U	2 U	
Dibromochloromethane	µg/l	50	-	0.5 U	0.5 U	0.5 U	
Dichlorodifluoromethane	µg/l	-	5	0.5 U	0.5 U	0.5 U	
Ethylbenzene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
Freon 113	µg/l	-	5	2 U	2 U	2 U	
Isopropylbenzene (Cumene)	µg/l	-	5	1 U	1 U	1 U	
m+p-Xylene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
Methyl Acetate	µg/l	-	-	1 U	1 U	1 U	
Methyl Tertiary Butyl Ether (MTBE)	µg/l	10	-	0.5 U	0.5 U	0.5 U	
Methylcyclohexane	µg/l	-	-	1 U	1 U	1 U	
Methylene Chloride	µg/l	-	5	2 U	2 U	2 U	
n-Butylbenzene	µg/l	-	5	1 U	1 U	1 U	
n-Propylbenzene	µg/l	-	50	1 U	1 U	1 U	
o-Xylene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
p-Isopropyltoluene	µg/l	-	5	1 U	1 U	1 U	
sec-Butylbenzene	µg/l	-	5	1 U	1 U	1 U	
Styrene	µg/l	-	5	1 U	1 U	1 U	
tert-Butylbenzene	µg/l	-	5	1 U	1 U	1 U	
Tetrachloroethene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
Toluene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
trans-1,2-Dichloroethene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
trans-1,3-Dichloropropene	µg/l	-	0.4	0.5 U	0.5 U	0.5 U	
Trichloroethene	µg/l	-	5	0.5 U	0.5 U	0.5 U	
Trichlorofluoromethane	µg/l	-	5	0.5 U	0.5 U	0.5 U	

Table 5
Analytical Results for Other Parameters from Surface Water Samples
Oak Materials - River Road 1, 2 and 3

				Location ID:	OS-SW-001	OS-SW-009	OS-SW-010
				Sample Date:	11/16/2016	11/16/2016	11/16/2016
				Sample Depth:	-	-	-
				Sample Type:	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD				
Vinyl Chloride	µg/l	-	2	0.5 U	0.5 U	0.5 U	
Xylene (Total)	µg/l	-	5	0.5 U	0.5 U	0.5 U	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation (NYSDEC)

Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 values for Class GA groundwater.

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 6
Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater Monitoring Well Samples
Former Oak Materials Fluorglas Division - John Street

				Location ID:	JS-MW-001A	JS-MW-001A	JS-MW-001B	JS-MW-001C	JS-MW-002A	JS-MW-003A	JS-MW-003B
				Sample Date:	01/09/2017	01/09/2017	01/04/2017	01/10/2017	01/04/2017	01/10/2017	01/10/2017
				Sample Type:	FD	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD								
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>											
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	2 J	2 J	3 J	0.7 U	1 J	0.9 J	2 J	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	4 J	3	2	0.5 U	5	0.5 U	1 J	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	40	43	70	37	10	4	34	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	1 U	1 U	1 J	1 U	1 U	1 U	2 J	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	19	20	40	54	7	6	22	
Perfluorononanoic acid (PFNA)	ng/l	-	-	11	12	9	0.6 U	4	0.6 U	2 J	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	6 J	8	4 J	2 U	3 J	2 U	2 U	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	6400	5700	5900	240	830	140 J	1500	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTriA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
<i>pH by Standard Method 9045D</i>											
pH	pH units	-	6.5 - 8.5	7.6	7.4	7.8	7.7	7.3	7.8	7.9	
<i>Total Organic Carbon by Lloyd Kahn Method</i>											
Total Organic Carbon	mg/l	-	-	1.8	1.8	6.4	0.95 J	2.3	1.4	4.9	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 values for Class GA groundwater.

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 6
Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater 1
Former Oak Materials Fluorglas Division - John Street

				Location ID:	JS-MW-003C	JS-MW-004A	JS-MW-004B	JS-MW-004C	JS-MW-005A	OS-MW-024B
				Sample Date:	01/04/2017	01/10/2017	01/04/2017	01/10/2017	01/04/2017	01/06/2017
				Sample Type:	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD							
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	0.7 U	2	0.8 J	0.9 J	2 J	2 J	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	100	9	28	160	8	22	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	1 U	2 J	1 J	2 J	1 U	1 J	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	130	6	14	150	8	14	
Perfluorononanoic acid (PFNA)	ng/l	-	-	0.6 U	0.6 J	0.6 U	0.6 U	0.6 U	1 J	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	2 U	4 J	2 U	2 U	2 U	2 J	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	2000	300	680	4100	200	620	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTriA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	6.5 - 8.5	7.8	7.5	7.9	8.7	7.4	7.6	
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/l	-	-	31.9	1.5	1.2	2.1	1.7	1	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1 values for Class 1

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 6
Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater 1
Former Oak Materials Fluorglas Division - John Street

				Location ID:	OS-MW-025A	OS-MW-025B	OS-MW-025C	OS-MW-026A	OS-MW-026B	OS-MW-026B
				Sample Date:	01/06/2017	01/09/2017	01/06/2017	01/06/2017	01/06/2017	01/06/2017
				Sample Type:	N	N	N	N	FD	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD							
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	3	5	3	10 J	3	3	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.6 J	0.6 J	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	10	21	22	20	47	43	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	1 U	2 J	1 J	2 J	2 J	1 J	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	9	17	24	17	28	27	
Perfluorononanoic acid (PFNA)	ng/l	-	-	0.9 J	1 J	0.7 J	2 J	5	4	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	6 J	9 J	2 U	12 J	2 J	3 J	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	640 J	660 J	610 J	730 J	3600	3900	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTriA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	6.5 - 8.5	6.9	7.5	7.5	7	7.6	7.7	
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/l	-	-	1.2	1.6	1.2	1.5	1.3	1.3	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1 values for Class 1

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 6
Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater 1
Former Oak Materials Fluorglas Division - John Street

				Location ID:	OS-MW-026C	OS-MW-027A	OS-MW-027B	OS-MW-027C	OS-MW-028B	OS-MW-028C
				Sample Date:	01/09/2017	01/10/2017	01/10/2017	01/10/2017	01/09/2017	01/06/2017
				Sample Type:	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD							
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	0.7 U	2 J	0.7 U	0.7 U	0.7 U	0.7 U	0.8 J
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	14	19	0.5 U	2	89	140	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	1 U	1 J	1 U	1 U	1 U	1 U	1 U
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	12	22	1 U	3 U	76	110	
Perfluorononanoic acid (PFNA)	ng/l	-	-	0.6 U	2 J	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	2 U	14 J	2 U	2 U	2 U	2 U	2 U
Perfluorooctanoic acid (PFOA)	ng/l	-	-	19 J	600 J	1 U	25 J	1700	4400	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Perfluorotridecanoic Acid (PFTriA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	6.5 - 8.5	8	7.2	8.3	8.7	8.3	7.8	
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/l	-	-	0.69 J	1.9	0.5 U	0.5 U	0.69 J	0.95 J	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation (DEC) Technical and Operational Guidance Series (TOGS) 1.1.1 values for Class 1

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 6
Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater 1
Former Oak Materials Fluorglas Division - John Street

				Location ID:	OS-MW-030B	OS-MW-030C	OS-MW-030D	OS-MW-031A	OS-MW-031B
				Sample Date:	01/09/2017	01/09/2017	01/09/2017	01/06/2017	01/06/2017
				Sample Type:	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD						
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>									
Perfluorobutanesulfonic acid (PFBS)	ng/l	-	-	1 J	0.9 J	0.7 U	7	2 J	
Perfluorodecanoic acid (PFDA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorododecanoic acid (PFDoA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroheptanoic acid (PFHpA)	ng/l	-	-	130	130	130	11	30	
Perfluorohexanesulfonic acid (PFHxS)	ng/l	-	-	1 U	1 U	1 U	1 U	2 J	
Perfluorohexanoic acid (PFHxA)	ng/l	-	-	110	120	140	8	28	
Perfluorononanoic acid (PFNA)	ng/l	-	-	0.6 U	0.6 U	0.6 U	1 J	0.9 J	
Perfluorooctanesulfonic acid (PFOS)	ng/l	-	-	2 U	2 U	2 U	5 J	2 U	
Perfluorooctanoic acid (PFOA)	ng/l	-	-	3800	3900	3700	640 J	980	
Perfluorotetradecanoic acid (PFTA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluorotridecanoic Acid (PFTriA)	ng/l	-	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Perfluoroundecanoic Acid (PFUnA)	ng/l	-	-	1 U	1 U	1 U	1 U	1 U	
<i>pH by Standard Method 9045D</i>									
pH	pH units	-	6.5 - 8.5	8.8	8	8	7.3	7.4	
<i>Total Organic Carbon by Lloyd Kahn Method</i>									
Total Organic Carbon	mg/l	-	-	1.9	0.83 J	0.86 J	1.4	14	

Notes and Abbreviations

ng/L - nanograms per liter

mg/L - milligrams per liter

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1 values for Class 1

 Exceedance of NYS GA Guidance

 Exceedance of NYS GA Standard

Table 7

Analytical Results for PFOA and Other PFCs, pH and TOC from Soil Samples
Former Oak Materials Fluorglas Division - John Street

									Location ID:	OS-B-031
									Sample Date:	11/29/2016
									Sample Depth:	15 - 17 ft
									Sample Type:	N
Constituent	Units	NY375 1UNRES	NY375 2RPGW	NY375 3RRRES	NY375 4RRRES	NY375 5RCOMM	NY375 6RINDU	NY375 7PER	USEPA Screen Value	
<i>Perfluorinated Alkyl Compounds (PFAS) by USEPA Method 537-1.1 modified</i>										
Perfluorobutanesulfonic acid (PFBS)	µg/kg	-	-	-	-	-	-	-	-	0.62 U
Perfluorodecanoic acid (PFDA)	µg/kg	-	-	-	-	-	-	-	-	0.25 U
Perfluorododecanoic acid (PFDoA)	µg/kg	-	-	-	-	-	-	-	-	0.5 U
Perfluoroheptanoic acid (PFHpA)	µg/kg	-	-	-	-	-	-	-	-	0.37 U
Perfluorohexanesulfonic acid (PFHxS)	µg/kg	-	-	-	-	-	-	-	-	0.62 U
Perfluorohexanoic acid (PFHxA)	µg/kg	-	-	-	-	-	-	-	-	0.25 U
Perfluorononanoic acid (PFNA)	µg/kg	-	-	-	-	-	-	-	-	0.25 U
Perfluorooctanesulfonic acid (PFOS)	µg/kg	-	-	-	-	-	-	-	1000	0.87 U
Perfluorooctanoic acid (PFOA)	µg/kg	-	-	-	-	-	-	-	1000	0.53 J
Perfluorotetradecanoic acid (PFTA)	µg/kg	-	-	-	-	-	-	-	-	0.37 U
Perfluorotridecanoic Acid (PFTriA)	µg/kg	-	-	-	-	-	-	-	-	0.74 U
Perfluoroundecanoic Acid (PFUnA)	µg/kg	-	-	-	-	-	-	-	-	0.37 U
<i>pH by Standard Method 9045D</i>										
pH	pH units	-	-	-	-	-	-	-	-	na
<i>Total Organic Carbon by Lloyd Kahn Method</i>										
Total Organic Carbon	mg/kg	-	-	-	-	-	-	-	-	2050

Notes and Abbreviations

µg/kg - microgram per kilogram

mg/kg - milligrams per kilogram

U - Compound not detected

J - Estimated value

N - Primary sample

FD - Field duplicate sample

na - Sample not analyzed for this parameter

Bold value indicates detected value

Shaded value indicates value equal to, or greater than, standard or guidance

NY Part 375 = NYS Soil Cleanup Objective (SCO) in Title 6 of Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Subpart 375-6.8(a).

USEPA Screening Values for PFOA and PFOS Developed by USEPA based on the Health Advisory for PFOA and PFOS of 70 nanograms per liter

 Exceedance of USEPA Screening Value

Table 8
Analytical Results for PFOA and Other PFCs, pH and TOC from Groundwater Monitoring Well Samples
Former Oak Materials Fluorglas Division - John Street

				Location ID: Sample Date: Sample Type:	JS-MW-001A 01/09/2017 FD	JS-MW-001A 01/09/2017 N	JS-MW-001B 01/04/2017 N	JS-MW-001C 01/10/2017 N	JS-MW-002A 01/04/2017 N	JS-MW-003A 01/10/2017 N	JS-MW-003B 01/10/2017 N	JS-MW-003C 01/04/2017 N	JS-MW-004A 01/10/2017 N	JS-MW-004B 01/04/2017 N	JS-MW-004C 01/10/2017 N	JS-MW-005A 01/04/2017 N	OS-MW-024B 01/06/2017 N	OS-MW-025A 01/06/2017 N	OS-MW-025B 01/09/2017 N	OS-MW-025C 01/06/2017 N	OS-MW-026A 01/06/2017 N	OS-MW-026B 01/06/2017 FD	OS-MW-026B 01/06/2017 N	OS-MW-026B 01/06/2017 N	OS-MW-026C 01/09/2017 N	OS-MW-027A 01/10/2017 N	
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD																								
Chloroethane	µg/l		5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
Chloroform	µg/l		7		0.5 U	0.5 U	2	0.5 U	0.5 U	0.5 U	0.9 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 J	0.5 U	0.5 U	2 J	2	0.5 U	3	
Chloromethane	µg/l		5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
cis-1,2-Dichloroethene	µg/l		5		8	8	18	3	4	0.5 U	6	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6 J	0.5 U	0.5 U	10	11	0.5 U	0.5 U	0.5 U	
cis-1,3-Dichloropropene	µg/l		0.4		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
Cyclohexane	µg/l				2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	
Dibromochloromethane	µg/l	50			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
Dichlorodifluoromethane	µg/l		5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
Ethylbenzene	µg/l		5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
Freon 113	µg/l		5		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	
Isopropylbenzene (Cumene)	ug/l		5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	
m+p-Xylene	ug/l		5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
Methyl Acetate	ug/l				1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	
Methyl Tertiary Butyl Ether (MTBE)	ug/l	10			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
Methylcyclohexane	µg/l				1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	
Methylene Chloride	µg/l		5		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	
n-Butylbenzene	µg/l		5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	
n-Propylbenzene	µg/l		50		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	
o-Xylene	µg/l		5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
p-Isopropyltoluene	µg/l		5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	
sec-Butylbenzene	µg/l		5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	
Styrene	µg/l		5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	
tert-Butylbenzene	µg/l		5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	
Tetrachloroethene	µg/l		5		0.6 J	0.6 J	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 J	0.5 U	0.5 U	0.5 U	1 U	0.7 J	0.5 U	0.5 U	0.5 U	
Toluene	µg/l		5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
trans-1,2-Dichloroethene	µg/l		5		0.5 U	0.5 U	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 J	2	0.5 U	0.5 U	0.5 U	
trans-1,3-Dichloropropene	µg/l		0.4		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
Trichloroethene	µg/l		5		130	130	1100	580	21	2	810	570	0.5 U	9	0.5 U	0.5 U	0.5 U	2	4	37	9	0.5 U	1100	1300	1	0.5 U	
Trichlorofluoromethane	µg/l		5		0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	
Vinyl Chloride	µg/l		2		0.5 U	0.5 U	2	3	0.9 J	0.5 U	1	0.5 U	0.5 U	2	0.5 U	0.5 U	0.5 U	0.9 J	0.5 U	0.5 U	0.5 U	1 J	2	0.5 U	0.5 U	0.5 U	
Xylene (Total)	µg/l		5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	

Notes and Abbreviations
µg/L - micrograms per liter
mg/L - milligrams per liter
I - Samples with location IDs ending in "I" were collected using inertial pump
U - Compound not detected
J - Estimated value
N - Primary sample
FD - Field duplicate sample
na - Sample not analyzed for this parameter
Bold value indicates detected value
Shaded value indicates value equal to, or greater than, standard or guidance
NYSDEC TOGS111 - Standards listed are the New York State
Department of Environmental Conservation (NYSDEC) Division of
Water Technical and Operational Guidance Series (TOGS) 1.1.1 values
Exceedance of NYS GA Guidance
Exceedance of NYS GA Standard

Table 8
Analytical Results for PFOA and Other PFCs, pH and TOC from Groun
Former Oak Materials Fluorglas Division - John Street

				Location ID: Sample Date: Sample Type:	OS-MW-027A 01/11/2017 N	OS-MW-027A 01/11/2017 N	OS-MW-027B 01/10/2017 N	OS-MW-027C 01/10/2017 N	OS-MW-028B 01/09/2017 N	OS-MW-028C 01/06/2017 N	OS-MW-030A 01/10/2017 N	OS-MW-030B 01/09/2017 N	OS-MW-030C 01/09/2017 N	OS-MW-030D 01/09/2017 N	OS-MW-031A 01/06/2017 N	OS-MW-031B 01/06/2017 N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD													
Metals by USEPA Method 6010B (Mercury by USEPA Method 7470)																
Aluminum	mg/l	0.003		na	na	0.167 J	0.894	0.0868 U	0.142 U	na	15.9	2.35	2.72	0.0868 U	19.2	
Antimony	mg/l		0.003	na	na	0.0077 U	0.0077 U	0.0077 U	0.0077 U	na	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	
Arsenic	mg/l		0.025	na	na	0.0114 J	0.0097 U	0.0097 U	0.0097 U	na	0.0166 J	0.0097 U	0.0097 U	0.0097 U	0.0097 U	
Barium	mg/l		1	na	na	0.133	0.113	0.292	0.388	na	1.14	0.464	0.448	0.0979	0.205	
Beryllium	mg/l			na	na	0.00067 U	0.00067 U	0.00067 U	0.00067 U	na	0.0023 J	0.00067 U	0.00067 U	0.00067 U	0.0015 J	
Cadmium	mg/l		0.005	na	na	0.00049 U	0.00049 U	0.00049 U	0.00049 U	na	0.00049 J	0.00049 U	0.00049 U	0.00049 U	0.0012 J	
Calcium	mg/l			na	na	44.2	43.8	58.1	80.5	na	318	78.8	81.8	87.2	344	
Chromium	mg/l		0.05	na	na	0.0018 U	0.0021 J	0.0018 U	0.0018 U	na	0.0197 J	0.0052 J	0.0024 J	0.0037 J	0.0594	
Cobalt	mg/l			na	na	0.0019 U	0.0019 U	0.0019 U	0.0019 U	na	0.0196	0.0019 U	0.0019 U	0.0019 U	0.0276	
Copper	mg/l		0.2	na	na	0.0041 U	0.0053 U	0.0041 U	0.0041 U	na	0.17	0.0221 U	0.0146 U	0.196	0.102	
Iron	mg/l	0.3	na	na	0.331 J	1.27	0.0747 U	0.404	na	32	3.3	3.35	0.0747 U	42.7		
Lead	mg/l	0.025	na	na	0.0062 U	0.0062 U	0.0062 U	0.0062 U	na	0.0525	0.0062 U	0.0062 U	0.0062 U	0.054		
Magnesium	mg/l	35	na	na	10.1 J	10.1 J	12.9 J	17.2	na	52.9 J	17.7 J	18.2	10.9	64.6		
Manganese	mg/l		0.3	na	na	0.216	0.234	0.206	0.41	na	4.29	0.446	0.486	0.0114 U	5.32	
Mercury	mg/l		0.0007	na	na	5E-05 U	5E-05 U	5E-05 U	5E-05 U	na	5E-05 U	5E-05 U	5E-05 U	5E-05 U	5E-05 U	
Nickel	mg/l	0.1	na	na	0.0028 U	0.0028 U	0.0028 U	0.0028 U	na	0.0273	0.0028 U	0.0035 J	0.0028 U	0.0799		
Potassium	mg/l			na	na	1.81	2.74	1.36	1.58	na	5.94	2.32	2.28	4.49	12.2	
Selenium	mg/l		0.01	na	na	0.0097 U	0.0097 U	0.0097 U	0.0097 U	na	0.0097 U	0.0097 U	0.0097 U	0.0097 U	0.0097 U	
Silver	mg/l	0.05	na	na	0.0019 U	0.0019 U	0.0019 U	0.0019 U	na	0.0019 U	0.0019 U	0.0019 U	0.0019 U	0.0019 U		
Sodium	mg/l		20	na	na	24.9 J	22.1 J	36.6 J	54.6	na	52.2 J	54.9 J	49.4	161	183	
Thallium	mg/l	0.0005	na	na	0.0094 U	0.0094 U	0.0094 U	0.0094 U	na	0.0094 U	0.0094 U	0.0094 U	0.0094 U	0.0094 U		
Vanadium	mg/l		na	na	0.0016 U	0.0016 U	0.0016 U	0.0016 U	na	0.0204	0.0031 J	0.0036 J	0.0016 U	0.0232		
Zinc	mg/l	2	na	na	0.0054 U	0.0062 J	0.0054 U	0.0054 U	na	0.195	0.0112 J	0.0153 J	0.0054 U	0.179		
Total Cyanide by USEPA Method 9010																
Total Cyanide (water)	mg/l		0.2	na	na	na	na	na	na	na	na	na	na	0.005 U	na	
Polychlorined Biphenyls (PCBs) by USEPA Method 8082																
Aroclor-1016	µg/l		0.09	na	na	na	na	na	na	na	na	na	0.096 U	na	na	
Aroclor-1221	µg/l		0.09	na	na	na	na	na	na	na	na	na	0.096 U	na	na	
Aroclor-1232	µg/l		0.09	na	na	na	na	na	na	na	na	na	0.19 U	na	na	
Aroclor-1242	µg/l		0.09	na	na	na	na	na	na	na	na	na	0.096 U	na	na	
Aroclor-1248	µg/l		0.09	na	na	na	na	na	na	na	na	na	0.096 U	na	na	
Aroclor-1254	µg/l		0.09	na	na	na	na	na	na	na	na	na	0.096 U	na	na	
Aroclor-1260	µg/l		0.09	na	na	na	na	na	na	na	na	na	0.14 U	na	na	
Aroclor-1262	µg/l		0.09	na	na	na	na	na	na	na	na	na	0.19 U	na	na	
Aroclor-1268	µg/l		0.09	na	na	na	na	na	na	na	na	na	0.15 U	na	na	
Pesticides by USEPA Method 8081																
Aldrin	µg/l			na	na	na	na	na	na	na	na	na	0.0019 U	na	na	
Alpha BHC	µg/l		0.01	na	na	na	na	na	na	na	na	na	0.0029 U	na	na	
Alpha Chlordane	µg/l			na	na	na	na	na	na	na	na	na	0.0029 U	na	na	
Beta BHC	µg/l		0.04	na	na	na	na	na	na	na	na	na	0.0033 U	na	na	
Delta BHC	µg/l		0.04	na	na	na	na	na	na	na	na	na	0.0033 U	na	na	
Dieldrin	µg/l		0.004	na	na	na	na	na	na	na	na	na	0.0051 U	na	na	
Endosulfan I	µg/l			na	na	na	na	na	na	na	na	na	0.0041 U	na	na	
Endosulfan II	µg/l			na	na	na	na	na	na	na	na	na	0.014 U	na	na	
Endosulfan Sulfate	µg/l			na	na	na	na	na	na	na	na	na	0.0056 U	na	na	
Endrin	µg/l		0	na	na	na	na	na	na	na	na	na	0.0078 U	na	na	
Endrin Aldehyde	µg/l		5	na	na	na	na	na	na	na	na	na	0.019 U	na	na	
Endrin Ketone	µg/l		5	na	na	na	na	na	na	na	na	na	0.0048 U	na	na	
Gamma Chlordane	µg/l			na	na	na	na	na	na	na	na	na	0.0067 U	na	na	
gamma-BHC (Lindane)	µg/l		0.04	na	na	na	na	na	na	na	na	na	0.0019 U	na	na	
Heptachlor	µg/l		0.04	na	na	na	na	na	na	na	na	na	0.0019 U	na	na	
Heptachlor Epoxide	µg/l		0.03	na	na	na	na	na	na	na	na	na	0.0022 U	na	na	
Methoxychlor	µg/l		35	na	na	na	na	na	na	na	na	na	0.029 U	na	na	
p,p-DDD	µg/l		0.3	na	na	na	na	na	na	na	na	na	0.0048 U	na	na	
p,p-DDE	µg/l		0.2	na	na	na	na	na	na	na	na	na	0.0048 U	na	na	
p,p-DDT	µg/l		0.2	na	na	na	na	na	na	na	na	na	0.005 UJ	na	na	
Toxaphene	µg/l		0.06	na	na	na	na	na	na	na	na	na	0.29 U	na	na	
Semivolatile Organic Compounds (SVOCs) by USEPA Method 8270																
1,1'-Biphenyl	µg/l		5	na	na	na	na	na	na	na	na	na	0.5 U	na	na	
1,2,4,5-Tetrachlorobenzene	µg/l		5	na	na	na	na	na	na	na	na	na	0.5 U	na	na	
1,4-Dioxane	µg/l			na	na	na	na	na	na	na	na	na	1 U	na	na	
2,2'-oxybis(1-Chloropropane)	µg/l		5	na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2,3,4,6-Tetrachlorophenol	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2,4,5-Trichlorophenol	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2,4,6-Trichlorophenol	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2,4-Dichlorophenol	µg/l		1	na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2,4-Dimethylphenol	µg/l	50	1	na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2,4-Dinitrophenol	µg/l		1	na	na	na	na	na	na	na	na	na	10 U	na	na	
2,4-Dinitrotoluene	µg/l		5	na	na	na	na	na	na	na	na	na	1 U	na	na	
2,6-Dinitrotoluene	µg/l		5	na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2-Chloronaphthalene	µg/l	10		na	na	na	na	na	na	na	na	na	0.4 U	na	na	
2-Chlorophenol	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2-Methylnaphthalene	µg/l			na	na	na	na	na	na	na	na	na	0.1 U	na	na	
2-Methylphenol	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2-Nitroaniline	µg/l		5	na	na	na	na	na	na	na	na	na	0.5 U	na	na	
2-Nitrophenol	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na	

Table 8
Analytical Results for PFOA and Other PFCs, pH and TOC from Groun
Former Oak Materials Fluorglas Division - John Street

Location ID: Sample Date: Sample Type:				OS-MW-027A	OS-MW-027A	OS-MW-027B	OS-MW-027C	OS-MW-028B	OS-MW-028C	OS-MW-030A	OS-MW-030B	OS-MW-030C	OS-MW-030D	OS-MW-031A	OS-MW-031B
				01/11/2017	01/11/2017	01/10/2017	01/10/2017	01/09/2017	01/06/2017	01/10/2017	01/09/2017	01/09/2017	01/09/2017	01/06/2017	01/06/2017
				N	N	N	N	N	N	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD												
3,3'-Dichlorobenzidine	µg/l		5	na	na	na	na	na	na	na	na	na	2 U	na	na
3-Nitroaniline	µg/l		5	na	na	na	na	na	na	na	na	na	0.5 U	na	na
4,6-Dinitro-2-methylphenol	µg/l			na	na	na	na	na	na	na	na	na	5 U	na	na
4-Bromophenyl-phenylether	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na
4-Chloro-3-methylphenol	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na
4-Chloroaniline	µg/l		5	na	na	na	na	na	na	na	na	na	2 U	na	na
4-Chlorophenyl-phenylether	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na
4-Methylphenol	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na
4-Nitroaniline	µg/l		5	na	na	na	na	na	na	na	na	na	0.5 U	na	na
4-Nitrophenol	µg/l			na	na	na	na	na	na	na	na	na	10 U	na	na
Acenaphthene	µg/l	20	20	na	na	na	na	na	na	na	na	na	0.1 U	na	na
Acenaphthylene	µg/l			na	na	na	na	na	na	na	na	na	0.1 U	na	na
Acetophenone	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na
Anthracene	µg/l	50		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Atrazine	µg/l		7.5	na	na	na	na	na	na	na	na	na	2 U	na	na
Benzaldehyde	µg/l			na	na	na	na	na	na	na	na	na	1 U	na	na
Benzo(a)anthracene	µg/l	0.002		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Benzo(a)pyrene	µg/l		0	na	na	na	na	na	na	na	na	na	0.1 U	na	na
Benzo(b)fluoranthene	µg/l	0.002		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Benzo(g,h,i)perylene	µg/l			na	na	na	na	na	na	na	na	na	0.1 U	na	na
Benzo(k)fluoranthene	µg/l	0.002		na	na	na	na	na	na	na	na	na	0.1 U	na	na
bis(2-Chloroethoxy)methane	µg/l		5	na	na	na	na	na	na	na	na	na	0.5 U	na	na
bis(2-Chloroethyl)ether	µg/l		1	na	na	na	na	na	na	na	na	na	0.5 U	na	na
bis(2-Ethylhexyl)phthalate	µg/l		5	na	na	na	na	na	na	na	na	na	2 U	na	na
Butylbenzylphthalate	µg/l	50		na	na	na	na	na	na	na	na	na	2 U	na	na
Caprolactam	µg/l			na	na	na	na	na	na	na	na	na	5 U	na	na
Carbazole	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na
Chrysene	µg/l	0.002		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Dibenz(a,h)anthracene	µg/l			na	na	na	na	na	na	na	na	na	0.1 U	na	na
Dibenzofuran	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na
Diethylphthalate	µg/l	50		na	na	na	na	na	na	na	na	na	2 U	na	na
Dimethylphthalate	µg/l	50		na	na	na	na	na	na	na	na	na	2 U	na	na
Di-n-butylphthalate	µg/l		50	na	na	na	na	na	na	na	na	na	2 U	na	na
Di-n-octylphthalate	µg/l	50		na	na	na	na	na	na	na	na	na	2 U	na	na
Fluoranthene	µg/l	50		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Fluorene	µg/l	50		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Hexachlorobenzene	µg/l		0.04	na	na	na	na	na	na	na	na	na	0.1 U	na	na
Hexachlorobutadiene	µg/l		0.5	na	na	na	na	na	na	na	na	na	0.5 U	na	na
Hexachlorocyclopentadiene	µg/l		5	na	na	na	na	na	na	na	na	na	5 U	na	na
Hexachloroethane	µg/l		5	na	na	na	na	na	na	na	na	na	1 U	na	na
Indeno(1,2,3-cd)pyrene	µg/l	0.002		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Isophorone	µg/l	50		na	na	na	na	na	na	na	na	na	0.5 U	na	na
Naphthalene	µg/l	10		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Nitrobenzene	µg/l		0.4	na	na	na	na	na	na	na	na	na	0.5 U	na	na
N-Nitroso-di-n-propylamine	µg/l			na	na	na	na	na	na	na	na	na	0.5 U	na	na
N-Nitrosodiphenylamine	µg/l	50		na	na	na	na	na	na	na	na	na	0.5 U	na	na
Pentachlorophenol	µg/l		1	na	na	na	na	na	na	na	na	na	1 UJ	na	na
Phenanthrene	µg/l	50		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Phenol	µg/l		1	na	na	na	na	na	na	na	na	na	0.5 U	na	na
Pyrene	µg/l	50		na	na	na	na	na	na	na	na	na	0.1 U	na	na
Volatile Organic Compounds (VOCs) by USEPA Method 8260															
1,1,1-Trichloroethane	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	160	0.5 U
1,1,2,2-Tetrachloroethane	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	µg/l		1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2	17
1,1-Dichloroethene	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4	0.5 U
1,2,3-Trichlorobenzene	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	µg/l		0.04	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	µg/l		0.0006	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	µg/l		3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	µg/l		0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	µg/l		1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	µg/l		3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	µg/l		3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	µg/l	50		3 J	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
2-Hexanone	µg/l	50		3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
4-Methyl-2-pentanone	µg/l			3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	µg/l	50		23	8 J	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	µg/l		1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	µg/l	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	µg/l	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Disulfide	µg/l	60		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 8
Analytical Results for PFOA and Other PFCs, pH and TOC from Groun
Former Oak Materials Fluorglas Division - John Street

				Location ID:	OS-MW-027A	OS-MW-027A	OS-MW-027B	OS-MW-027C	OS-MW-028B	OS-MW-028C	OS-MW-030A	OS-MW-030B	OS-MW-030C	OS-MW-030D	OS-MW-031A	OS-MW-031B
				Sample Date:	01/11/2017	01/11/2017	01/10/2017	01/10/2017	01/09/2017	01/06/2017	01/10/2017	01/09/2017	01/09/2017	01/09/2017	01/06/2017	01/06/2017
				Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N
Constituent	Units	NYSDEC TOGS111 GA GUIDANCE	NYSDEC TOGS111 GA STANDARD													
Chloroethane	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	µg/l		7	0.5 U	2	0.5 U	0.8 J	0.5 U	0.5 U	0.8 J	0.5 U	0.5 U	0.5 U	0.5 U	0.7 J	0.7 J
Chloromethane	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	µg/l		0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	µg/l			2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	µg/l	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Freon 113	µg/l		5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Isopropylbenzene (Cumene)	ug/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m+p-Xylene	ug/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	ug/l			1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Tertiary Butyl Ether (MTBE)	ug/l	10		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylcyclohexane	µg/l			1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	µg/l		5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
n-Butylbenzene	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	µg/l		50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	µg/l		5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	µg/l		0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	56	0.5 U
Trichlorofluoromethane	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	µg/l		2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (Total)	µg/l		5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes and Abbreviations
µg/L - micrograms per liter
mg/L - milligrams per liter
I - Samples with location IDs ending in "I" were collected using inertial p
U - Compound not detected
J - Estimated value
N - Primary sample
FD - Field duplicate sample
na - Sample not analyzed for this parameter
Bold value indicates detected value
Shaded value indicates value equal to, or greater than, standard or guida
NYSDEC TOGS111 - Standards listed are the New York State
Department of Environmental Conservation (NYSDEC) Division of
Water Technical and Operational Guidance Series (TOGS) 1.1.1 values
Exceedance of NYS GA Guidance
Exceedance of NYS GA Standard