



Periodic Review Report

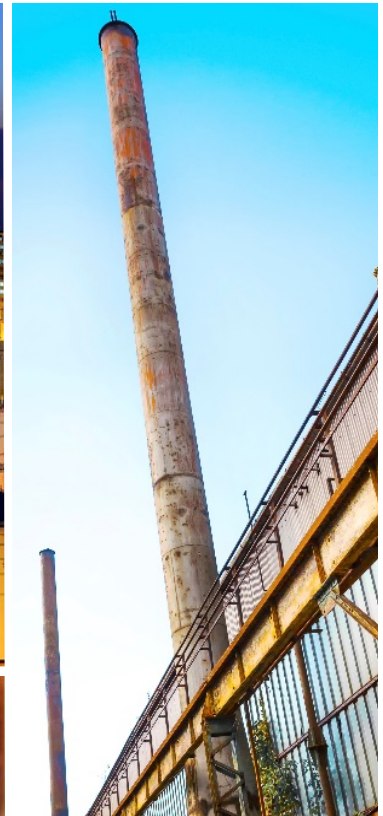
202 – 218 Morgan Avenue BCP Site

BCP Site #C224133

November 22, 2017 to November 22, 2018

Reporting Period

Rolling Frito-Lay Sales, LP





Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site No. C224133

Site Details

Box 1

Site Name Frito Lay

Site Address: 202-218 Morgan Avenue Zip Code: 11237
City/Town: Brooklyn
County: Kings
Site Acreage: 2.8

Reporting Period: November 22, 2017 to November 22, 2018

YES NO

1. Is the information above correct?

☒ ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐ ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐ ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐ ☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Industrial

☒ ☐

7. Are all ICs/ECs in place and functioning as designed?

☒ ☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

☐ ☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

☒ ☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C224133**Box 3****Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
3-02942-0105	Rolling Frito Lay Sales, LP	Soil Management Plan Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan
<p>A series of ICs is required by the NYSDEC Decision Document dated July 2011 to: (1) implement, maintain and monitor engineering control (EC) systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Frito-Lay site to industrial uses only. Adherence to these institutional controls (ICs) on the Frito-Lay site is required by the Environmental Easement and will be implemented under the Site Management Plan (SMP).</p> <p>The ICs are:</p> <p>Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;</p> <p>All ECs must be operated and maintained as specified in the SMP;</p> <p>All ECs must be inspected at a frequency and in a manner defined in the SMP.</p> <p>Groundwater monitored natural attenuation sampling and analysis, soil vapor intrusion study, and other environmental or public health monitoring must be performed as defined in the SMP;</p> <p>Data and information pertinent to Site Management of the site must be reported at the frequency and in a manner defined in the SMP;</p> <p>All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;</p> <p>Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP; and</p> <p>Operation, monitoring, maintenance, inspection and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.</p> <p>ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.</p> <p>The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:</p> <p>The property may only be used for industrial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.</p> <p>The property may not be used for a higher level of use, such as, unrestricted, residential, restricted residential, and commercial use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;</p> <p>All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;</p> <p>The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;</p> <p>The potential for vapor intrusion must be evaluated for any buildings developed on the area noted on Figure 2-3 of the SMP and any potential impacts that are identified must be monitored or mitigated;</p>		

Vegetable gardens and farming on the property are prohibited; and,

The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such property any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

3-02942-0111

Rolling Frito Lay Sales, LP

Soil Management Plan
Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

A series of ICs is required by the NYSDEC Decision Document dated July 2011 to: (1) implement, maintain and monitor engineering control (EC) systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Frito-Lay site to industrial uses only. Adherence to these institutional controls (ICs) on the Frito-Lay site is required by the Environmental Easement and will be implemented under the Site Management Plan (SMP).

The ICs are:

Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;

All ECs must be operated and maintained as specified in the SMP;

All ECs must be inspected at a frequency and in a manner defined in the SMP.

Groundwater monitored natural attenuation sampling and analysis, soil vapor intrusion study, and other environmental or public health monitoring must be performed as defined in the SMP;

Data and information pertinent to Site Management of the site must be reported at the frequency and in a manner defined in the SMP;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP; and

Operation, monitoring, maintenance, inspection and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP.

ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

The site has a series of ICs in the form of site restrictions. Adherence to these ICs is required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

The property may only be used for industrial use provided that the long-term Engineering and Institutional Controls included in this SMP are employed.

The property may not be used for a higher level of use, such as, unrestricted, residential, restricted residential, and commercial use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;

The potential for vapor intrusion must be evaluated for any buildings developed on the area noted on Figure 2-3 of the SMP and any potential impacts that are identified must be monitored or mitigated;

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3-02942-0112

Rolling Frito Lay Sales, LP

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan
Soil Management Plan

A series of ICs is required by the NYSDEC Decision Document dated July 2011 to: (1) implement, maintain and monitor engineering control (EC) systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Frito-Lay site to industrial uses only. Adherence to these institutional controls (ICs) on the Frito-Lay site is required by the Environmental Easement and will be implemented under the Site Management Plan (SMP).

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The property may not be used for a higher level of use, such as, unrestricted, residential, restricted residential, and commercial use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

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The potential for vapor intrusion must be evaluated for any buildings developed on the area noted on Figure 2-3 of the SMP and any potential impacts that are identified must be monitored or mitigated;

Vegetable gardens and farming on the property are prohibited; and,

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Box 4

Description of Engineering Controls

Parcel

3-02942-0105

Engineering Control

Vapor Mitigation

Cover System

Subsurface Barriers

Fencing/Access Control

Asphalt (Engineered) and Soil Cover Systems:

Exposure to remaining contamination in soil at the Frito-Lay site is prevented by an asphalt and soil cover system placed over the site. This cover system is comprised of a minimum of 6 inches of asphalt pavement, with the exception along the bulkhead area where a soil cover system consists of a minimum of 1-foot of clean soil/fill able to support a vegetative cover.

Chain Linked Fence:

The site is enclosed by a "newly" constructed 10-foot high chain linked fence installed on the eastern, western, and southern sides which prevents unauthorized access. Access to the northern section of the site is available through the Frito-Lay facility.

Composite Cover System:

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

Sub-Slab Depressurization System (SSDS):

The active SSD system, when it is constructed and operational, will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSD system is no longer required, a proposal to discontinue the SSD system will be submitted by the property owner to the NYSDEC and NYSDOH.

Monitored Natural Attenuation:

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards or have become asymptotic at an acceptable level over an extended period. Monitoring will continue until permission to

Parcel**Engineering Control**

discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

3-02942-0111

Vapor Mitigation
Cover System
Subsurface Barriers
Fencing/Access Control

Asphalt (Engineered) and Soil Cover Systems:

Exposure to remaining contamination in soil at the Frito-Lay site is prevented by an asphalt and soil cover system placed over the site. This cover system is comprised of a minimum of 6 inches of asphalt pavement, with the exception along the bulkhead area where a soil cover system consists of a minimum of 1-foot of clean soil/fill able to support a vegetative cover.

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3-02942-0112

Vapor Mitigation
Cover System
Subsurface Barriers
Fencing/Access Control

Asphalt (Engineered) and Soil Cover Systems:

Exposure to remaining contamination in soil at the Frito-Lay site is prevented by an asphalt and soil cover system placed over the site. This cover system is comprised of a minimum of 6 inches of asphalt pavement, with the exception along the bulkhead area where a soil cover system consists of a minimum of 1-foot of clean soil/fill able to support a vegetative cover.

Chain Linked Fence:

The site is enclosed by a "newly" constructed 10-foot high chain linked fence installed on the eastern, western, and southern sides which prevents unauthorized access. Access to the northern section of the site is available through the Frito-Lay facility.

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The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

Sub-Slab Depressurization System (SSDS):

The active SSD system, when it is constructed and operational, will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSD system is no longer required, a proposal to discontinue the SSD system will be submitted by the property owner to the NYSDEC and NYSDOH.

Monitored Natural Attenuation:

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC, until residual groundwater concentrations are found to be consistently below NYSDEC standards

Parcel

Engineering Control

or have become asymptotic at an acceptable level over an extended period. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C224133

Box 6


SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Cedric Robinson at 7701 Legacy Drive, Plano, TX 75025
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

1/7/19
Date

IC/EC CERTIFICATIONS

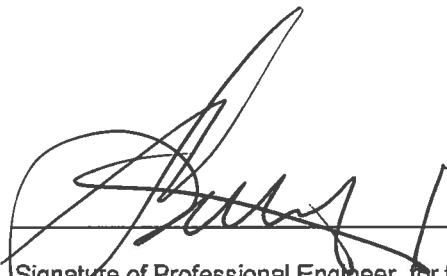
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Damian J. Vanetti at GHD Consulting Services Inc.
print name print business address
One Remington Park Drive, Cazenovia, NY 13035

am certifying as a Professional Engineer for the Owner
(Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



Stamp
(Required for PE)

1-7-19

Date



Executive Summary

The 202-218 Morgan Avenue Brownfield Cleanup Program (BCP) Site (BCP Site #224133) consists of approximately 2.85-acres of land located at 202-218 Morgan Avenue, Borough of Brooklyn, Kings County, New York. The Site owner is Rolling Frito-Lay Sales, LP (Frito-Lay). The Site soil and groundwater was historically found to be contaminated with metals, polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), and volatile organic compounds (VOCs), and Site soil vapor was found to be contaminated with volatile organic compounds (VOCs). The Site was remediated to industrial use cleanup standards and received a Certificate of Completion (COC) from the New York State Department of Environmental Conservation (NYSDEC) on November 6, 2013.

The Site is currently in the monitoring stage, including annual inspections and annual groundwater monitoring, with groundwater samples being collected from on-Site and off-Site monitoring wells. In general, increasing and decreasing concentrations are observed for the various parameters across the Site, with no distinct discernable trends recognizable at this time. However, off-Site groundwater monitoring well MW-7 appears to have a generally increasing trend in concentrations of chlorinated VOCs, with tetrachloroethene being detected above groundwater standards for the second year in a row. In addition, concentrations of trichloroethene, cis-1,2-dichloroethene, and vinyl chloride have historically been detected at concentrations above groundwater standards in samples taken from MW-7 and appear to further indicate a generally increasing trend in chlorinated VOC concentrations off-site. The concentrations of detected compounds in Site groundwater samples do not indicate the need for further assessment or further action at this time. It is noted that the Site groundwater quality could be influenced by the adjacent English Kills and/or upgradient groundwater for certain compounds.

The institutional controls and engineering controls for the Site remain in place and effective for protecting human health and the environment. The soil cover engineering controls remain in place and functioning as intended. At the time of the annual Site inspection (November 15, 2018), it was noted that minor vegetation growth should be removed from the area around monitoring well MW-2R and woody vegetation should be removed from the stone rip-rap portion of the Site during regular maintenance. Woody growth should be monitored periodically as part of routine maintenance to determine if removal is required. Annual groundwater monitoring has been completed in accordance with the Site Management Plan (SMP). There are no new buildings constructed on-Site and the existing warehouse on the adjacent property to the north has not been expanded. As a result, there is no need for a sub-slab depressurization system (SSDS) engineering control. The institutional and engineering controls certification form, as issued by the Department, has been completed and included Attachment 1 at the beginning of this report.

There is no need to revise the SMP or propose a change to the frequency of PRR submittals at this time. Groundwater will continue to be monitored on an annual basis and Site inspections will continue to be performed on an annual basis, in accordance with the SMP. If buildings are constructed in the future they will be evaluated to determine if mitigation of soil vapor intrusion is necessary. The requirements necessary to discontinue Site monitoring and Site Engineering and Institutional Controls have not been met at this time.



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Figure Index

Figure 1 – Site Location Map

Figure 2 – Site Layout

Figure 3 – Engineering Controls

Figure 4 – Exceedances of Groundwater Standards – Total Metals

Figure 5 – Exceedances of Groundwater Standards – Dissolved Metals

Figure 6 – Exceedances of Groundwater Standards – Other Analytes

Figure 7 – Groundwater Elevation and Flow Direction

Table Index

Table 1 – Groundwater Elevation Data

Table 2 – Groundwater Field Parameter Data

Table 3 – Summary of Groundwater Sample Laboratory Analytical Results



Attachment and Appendix Index

Attachment 1	Institutional and Engineering Controls Certification Form (prior to Executive Summary)
Appendix A	Annual Inspection Form
Appendix B	Approval Notifications for EQULS Database Submittals



1. Introduction

1.1 Purpose

This Periodic Review Report (PRR) is being submitted on behalf of Rolling Frito-Lay Sales, LP (Frito-Lay) for the 202-218 Morgan Avenue Brownfield Cleanup Program (BCP) Site (BCP Site No. C224133) located at 202-218 Morgan Avenue, Borough of Brooklyn, Kings County, New York (Figure 1). The purpose of this PRR, and attached documents, is to document that institutional and engineering controls, as described in the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (SMP) and Environmental Easement (EE), are in place in accordance with 6NYCRR Part 375-3. The following elements are included in this report:

- A complete description of all institutional and/or engineering controls employed at the Site
- An evaluation of the plans developed for implementation of the engineering and institutional controls, regarding the continued effectiveness of any institutional and/or engineering controls required by the decision document for the Site
- A certification prepared by a professional engineer or qualified environmental professional that the institutional controls and/or engineering controls employed at the Site during the period are:
 - Unchanged from the previous certification, unless approved by the Department, consistent with the SMP
 - In place and effective
 - Performing as designed, and that nothing has occurred that would (1) impair the ability of the controls to protect public health and the environment, or (2) constitute a violation or failure to comply with any operation and maintenance plan for such controls
- The institutional and engineering controls certification form as issued by the Department has been completed and included at the beginning of this report.
- Data tables and figures depicting results of annual groundwater monitoring activities conducted on- and off-Site.

1.2 Certification Period

NYSDEC requested that this PRR cover the period between November 22, 2017 and November 22, 2018. During this period, Frito-Lay performed regular inspections of the soil cover engineering control on-Site. GHD Consulting Services Inc. (GHD), on behalf of Frito-Lay, performed annual groundwater monitoring, conducted an annual visual inspection of engineering controls on-Site, and prepared this PRR.



1.3 Scope and Limitations

This report has been prepared by GHD for Rolling Frito-Lay Sales, LP and may only be used and relied on by Rolling Frito-Lay Sales, LP for the purpose agreed between GHD and Rolling Frito-Lay Sales, LP as set out in Section 1.1 of this report.

GHD otherwise disclaims responsibility to any person other than Rolling Frito-Lay Sales, LP arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

GHD has prepared this report based in part on information provided by Rolling Frito-Lay Sales, LP and others who provided information to GHD (including Government authorities), which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

The opinions, conclusions and any recommendations in this report are based on information obtained from, and testing undertaken at or in connection with, specific sample points. Site conditions at other parts of the Site may be different from the Site conditions found at the specific sample points.

Investigations undertaken in respect of this report are constrained by the particular Site conditions, such as the location of buildings, services and vegetation. As a result, not all relevant Site features and conditions may have been identified in this report.

Site conditions (including the presence of hazardous substances and/or Site contamination) may change after the date of this report. GHD does not accept responsibility arising from, or in connection with, any change to the Site conditions. GHD is also not responsible for updating this report if the Site conditions change without further authorization to do so by Rolling Frito-Lay Sales, LP.



2. Site Overview

The Site is located in the Borough of Brooklyn, Kings County, New York and is identified as Block 2942 and Lots 105, 111, and 112 on the NYSDEC Institutional and Engineering Controls Certification Form. Information obtained from the New York City Finance Department online Tax Maps identifies the Site as Block 2942 and Lot 105, with no matching records for Lots 111 and 112. The Site is approximately 3.23-acres of land, of which approximately 2.85-acres were entered into the BCP. The Site is bound by an adjacent parcel to the north owned by Rolling Frito-Lay Sales, LP and used for distribution activities; English Kills to the east; the English Kills basin and an adjacent industrial parcel to the south; and Morgan Avenue to the west with commercial and industrial properties further west (see Figure 2).

The Site is currently developed with an asphalt pavement parking area used for parking Frito-Lay delivery vehicles and employee vehicles. The portion of the Site not occupied by asphalt pavement consists of minor grass covered landscaping areas and rip-rap adjacent to English Kills and the English Kills basin.

The Remedial Investigation (RI), which was conducted under Brownfield Cleanup Agreement (BCA Index #A2-0622-0709) during 2009 and 2010, characterized the nature and extent of contamination at the Site. The results of the RI, as reported in the *Revised Remedial Investigation Report* (Gannett Fleming, P.C., July 2010) and the *Supplemental Remedial Investigation and Second Supplemental Remedial Investigation Report* (Gannett Fleming, P.C., April 2011) determined that contaminants of concern (COCs) were present in Site soil, groundwater, and soil vapor. It was determined that Site surface and subsurface soils contained arsenic, lead, mercury, polychlorinated biphenyls (PCBs), and semi-volatile organic compounds (SVOCs) at concentrations that exceeded the Unrestricted Use Soil Cleanup Objectives (SCOs). Analytical results of Site groundwater samples identified arsenic, lead, and volatile organic compounds (VOCs) at concentrations that exceeded the Technical and Operational Guidance Series (TOGS) Class GA groundwater standards or guidance values. VOCs were also detected in Site soil vapor samples.

A Remedial Work Plan (RWP) was prepared by Gannett Fleming, P.C. (August 2011). The remedial goals for the Site included:

- removing or eliminating significant threats to human health and the environment
- protecting human health and the environment during the contemplated future use of the Site, which was identified as industrial, heavy manufacturing, in accordance with the BCA and DER-10.

The proposed remedial approach was to remediate the Site to a Track 4 Restricted Use by meeting the Industrial Use SCOs. This remediation approach included excavation of soil/fill exceeding Site-specific remedial action objectives (RAOs), excavation of soil/fill exceeding the Industrial Use SCOs, and implementation of engineering/institutional controls. Remedial activities were completed at the Site in February 2013. Soil/fill excavation included:

- the removal of approximately 16,513 tons of hazardous PCB soil (PCB concentrations in excess of 50 mg/kg)



- the removal of approximately 4,096 tons of non-hazardous PCB soil (PCB concentrations in excess of 10 mg/kg or 25 mg/kg, depending on the excavation area)
- the removal of approximately 619 tons of arsenic, lead, and mercury contaminated soil with concentrations exceeding the Protection of Groundwater and/or Industrial Use SCOs
- the placement of imported clean fill material back into the excavation areas.

Excavated soil/fill was transported for off-Site disposal. The PCB excavated soils that were identified as hazardous were reportedly managed in accordance with TSCA regulations.

The selected remedy for groundwater remediation was natural attenuation, based on the fact that VOC daughter products were present in several on-Site groundwater monitoring wells, which suggests that degradation is occurring and can be expected to continue over time. Also, sensitive receptors were not identified downgradient of the Site and the Site and surrounding area is serviced by a municipal water supply system.

The engineering controls for the Site consist of maintaining the soil cover system and requiring the installation of a sub-slab depressurization system (SSDS) in any new buildings constructed on-Site, or in future expansions added to the Frito-Lay warehouse located on the adjoining property to the north. The institutional controls include a Site groundwater use restriction, a Site use restriction restricting the use to industrial uses, and the requirement that a SSDS will be installed in any future buildings constructed on-Site.

An Environmental Easement (EE) for the Site was filed with the Kings County Clerk's Office on September 20, 2013. A Site Management Plan, which outlines Site restrictions and requirements of future maintenance and monitoring, was completed in September 2013. A Certificate of Completion allowing for industrial uses of the Site was received from the NYSDEC on November 6, 2013.

The reader of this PRR may refer to previous reports for more detail, as needed. These reports include:

- *Subsurface Investigation*, Gannett Fleming, P.C., 2003.
- *Phase I Environmental Site Assessment*, Gannett Fleming, P.C., 2006.
- *Surface Pile Characterization Work Plan*, Gannett Fleming, P.C., 2007.
- *Phase II Environmental Site Assessment*, Gannett Fleming, P.C., 2007.
- *Remedial Investigation*, Gannett Fleming, P.C., 2009.
- *Supplemental Remedial Investigation*, Gannett Fleming, P.C., 2010.
- *Second Supplemental Remedial Investigation*, Gannett Fleming, P.C., 2011.
- *Remedial Work Plan*, Gannett Fleming, P.C., 2011.
- *Site Management Plan*, Frito-Lay, Brooklyn, New York, NYSDEC Site Number: C224133, Gannett Fleming Engineers, P.C., September 2013.
- *Final Engineering Report*, Frito-Lay, Brooklyn, Kings County, New York, NYSDEC Site Number: C224133, Gannett Fleming Engineers, P.C., October 2013.
- *202-218 Morgan Avenue BCP Site Annual Post-Remediation Groundwater Monitoring Letter Report*, GHD Consulting Services Inc., August 1, 2014.



- *202-218 Morgan Avenue BCP Site (BCP Site #C224133) – Periodic Review Report, November 6, 2013 – November 22, 2014, GHD Consulting Services Inc., December 2014.*
- *202-218 Morgan Avenue BCP Site (BCP Site #C224133) – Annual Post-Remediation Groundwater Monitoring – 2015, GHD Consulting Services Inc., August 12, 2015.*
- *202-218 Morgan Avenue BCP Site (BCP Site #C224133) – Periodic Review Report, November 22, 2014 – November 22, 2015, GHD Consulting Services Inc., February 12, 2016.*
- *202-218 Morgan Avenue BCP Site (BCP Site #C224133) – Annual Post-Remediation Groundwater Monitoring – 2016, GHD Consulting Services Inc., September 15, 2016.*
- *202-218 Morgan Avenue BCP Site (BCP Site #C224133) – Periodic Review Report, November 22, 2015 – November 22, 2016, GHD Consulting Services Inc., January 6, 2017.*
- *202-218 Morgan Avenue BCP Site (BCP Site #C224133) – Annual Post-Remediation Groundwater Monitoring – 2017, GHD Consulting Services Inc., July 28, 2017.*
- *202-218 Morgan Avenue BCP Site (BCP Site #C224133) – Periodic Review Report, November 22, 2016 – November 22, 2017, GHD Consulting Services Inc., January 5, 2018.*
- *202-218 Morgan Avenue BCP Site (BCP Site #C224133) – Annual Post-Remediation Groundwater Monitoring – 2018, GHD Consulting Services Inc., August 20, 2018.*



3. Institutional and Engineering Controls

Based on identified soil, groundwater, and soil vapor contamination, and the Site's past and present use, institutional and engineering controls are utilized at the Site to limit exposure risks. These institutional and engineering controls are described below.

3.1 Institutional Controls

The institutional controls (ICs) for this Site are outlined in the NYSDEC-approved SMP (Gannett Fleming Engineers, P.C., September 2013) and adherence to these ICs is required by the Environmental Easement. The ICs for the Site include the following:

- the property may only be used for industrial uses provided that the long-term engineering and institutional controls included in the NYSDEC-approved SMP are employed
- the property may not be used for a higher level of use, such as, unrestricted, residential, restricted residential, and/or commercial use without additional remediation and amendment of the EE, as approved by the NYSDEC
- all future activities on the property that will disturb remaining contamination must be conducted in accordance with the NYSDEC-approved SMP
- the use of groundwater underlying the property is prohibited without treatment rendering it safe for intended use and prior approval by NYSDEC
- the potential for soil vapor intrusion must be evaluated for any buildings developed on Site, or expansions added to the existing warehouse to the north, and any potential impacts that are identified must be monitored and/or mitigated
- vegetable gardens and farming on the property are prohibited
- the Site owner or remedial party will submit to the NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and the environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such property any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow, and will be made by an expert that the NYSDEC finds acceptable.

3.1.1 Site Use

The Site use has not changed since the NYSDEC issued the Certificate of Completion and is currently used for industrial uses and parking of Frito-Lay company/delivery and employee vehicles.

3.1.2 Groundwater

Groundwater is not being used at the Site.



Monitored natural attenuation groundwater monitoring was conducted as outlined in the NYSDEC-approved SMP during this PRR reporting period (May 2017). Laboratory analytical results were tabulated and submitted to the NYSDEC (GHD, July 28, 2017) and to the NYSDEC's EQulS Database. Results of groundwater monitoring did not warrant revision of the monitoring schedule or analytical list.

3.1.3 Excavations

No excavations occurred on-Site during this PRR's certification period.

3.2 Engineering Controls

The engineering controls (ECs) for this Site are outlined in the NYSDEC-approved SMP (Gannett Fleming Engineers, P.C., September 2013), and include the following:

3.2.1 Asphalt and Soil (Engineered) Cover Systems

Direct contact with soil/fill at the Site is mitigated by a soil cover system in place over the entirety of the Site. This soil cover system is comprised of a minimum of 6 inches of asphalt pavement or a minimum of 1-foot of clean soil/fill, consisting of maintained landscape areas or rip rap. The location of the soil cover system is depicted in Figure 3.

The soil cover system was in place for the duration of the certification period and no maintenance was required to amend the soil cover system. At the time of the annual Site inspection (November 15, 2018), it was noted that minor surface cracks were present in the asphalt pavement but were not significant enough to warrant additional action at the time. The remainder of the soil cover system was in good repair.

Additional information can be found in the Institutional and Engineering Controls Certification Form (beginning of this report) and the Annual Inspection Form (Appendix A).

3.2.2 Chain Linked Fence

To prevent unauthorized access to the Site, a 10-foot high chain linked fence was installed along the eastern, western, and southern boundaries. Access to the Site from the northern boundary is controlled by the adjacent property, which is also owned by Frito-Lay.

The chain linked fence was in good condition at the time of the annual Site inspection (November 15, 2018) and appeared to be effective in limiting unauthorized access to the Site.

3.2.3 Sub-Slab Depressurization System

A sub-slab depressurization system (SSDS) will be required to be installed in any new buildings constructed on-Site or if the warehouse on the adjacent property to the north, which is also owned by Frito-Lay, is expanded or renovated.

At the time of the annual Site inspection (November 15, 2018) no new buildings had been constructed on-Site and the adjacent warehouse to the north had not been expanded. Therefore, no SSDS is required at this time.



4. Operations and Monitoring

The NYSDEC-approved SMP (Gannett Fleming Engineers, P.C., September 2013) requires annual groundwater monitoring and reporting. The annual monitoring is intended to assess the performance of the remedy and overall reduction in contamination on-Site. The annual groundwater monitoring was completed in accordance with the SMP (Figures 4, 5, 6, and 7 and Tables 1, 2, and 3). The laboratory sample results were transmitted to the NYSDEC in the Annual Post-Remediation Groundwater Monitoring letter report (GHD, August 20, 2018) and were also successfully uploaded into the NYSDEC's EQulS Database on August 3, 2018 (Appendix B). Table 3 summarizes laboratory analytical results of groundwater samples taken since remediation was completed at the Site. The groundwater results are compared to Class GA groundwater quality standards or guidance values from the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1, June 1998 and subsequent addenda).

In general, since post-remediation baseline samples were taken, concentrations of analytes detected in groundwater samples have both increased and decreased, with no consistent Site-wide trends recognizable at this time. Overall the number of contaminants detected above groundwater standards are limited as noted in the tables and figures. However, off-Site groundwater monitoring well MW-7 appears to have a generally increasing trend in concentrations of chlorinated VOCs, with tetrachloroethene being detected above groundwater standards for the second year in a row. In addition, concentrations of trichloroethene, cis-1,2-dichloroethene, and vinyl chloride have historically been detected at concentrations above groundwater standards in samples taken from MW-7 and appear to further indicate a generally increasing trend in chlorinated VOC concentrations off-site. In addition, the concentrations of barium in off-site groundwater monitoring well MW-8 appears to have an increasing trend. The detected contaminants in MW-7 and MW-8 are likely related to an off-site source. The concentrations of detected compounds in Site groundwater samples do not indicate the need for further assessment or further action at this time. It is noted that the Site groundwater quality could be influenced by the tidal water dynamics of the adjacent English Kills and/or upgradient groundwater for certain compounds.

Based on the groundwater data received to date, the qualitative exposure assessment assumptions regarding on-Site and off-site contamination have not changed and are still valid. As future groundwater monitoring events occur, the data will be reviewed to determine if any compound-specific or Site-wide trends (decreasing or increasing) can be identified.

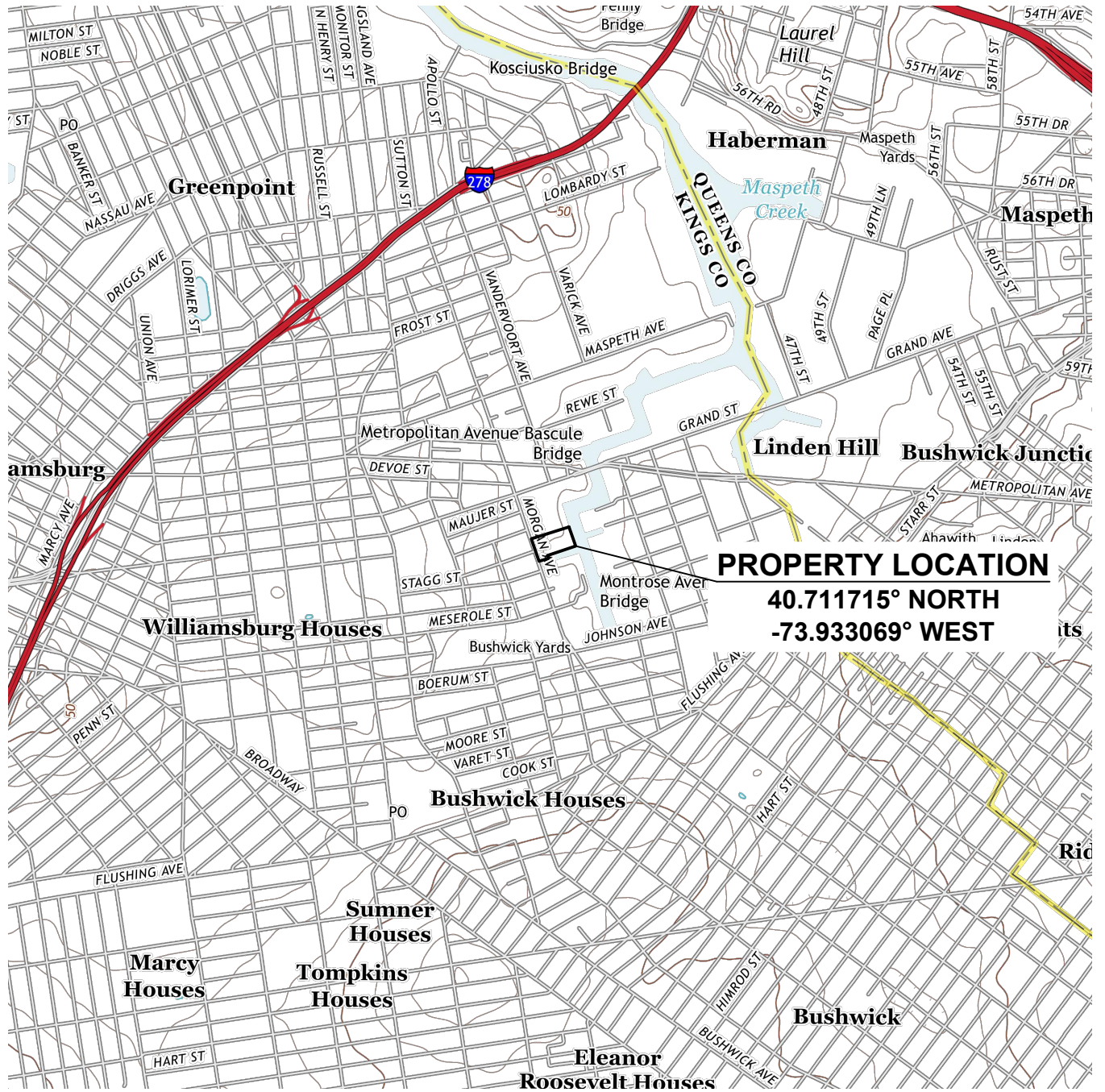


5. Recommendations

Based on a review of the annual groundwater data, it is recommended that the ICs and ECs currently in place for the Site remain in place in order to ensure the continued effectiveness and protectiveness of the remedy. The trends in groundwater quality associated with the off-site monitoring wells MW-7 and MW-8 should continue to be assessed for potential impacts to Site groundwater quality. Groundwater monitoring should continue to be conducted on an annual basis, as identified in the SMP, until the May 2019 monitoring event, after which the monitoring results should be reviewed and modifications to future monitoring requirements, if any, should be recommended to the NYSDEC. The effectiveness of the remedy should continue to be evaluated through analytical results from the groundwater monitoring events.

The minor surface cracks in the asphalt pavement should be periodically monitored to ensure they are not progressing to the point where potential exposure to remaining contamination could occur or could compromise the engineering control. In general, the asphalt pavement should be maintained and cracks sealed as part of the Site maintenance program. Vegetation growth around monitoring well MW-2R should be removed to allow for clear access to the wells. Also, the woody growth along the perimeter rip-rap should be periodically removed to control potential impacts to the cover system. The annual Site inspections should be continued to ensure that the Site use has not changed and the engineering controls are in place and functioning as intended.

Figures



QUADRANGLE LOCATION

CONTOUR INTERVAL: 10 FEET

MAP TAKEN FROM: USGS 7.5 MINUTE SERIES
 TOPOGRAPHIC QUADRANGLES:
 BROOKLYN, NY (2013)
 (U.S. GEOLOGICAL SURVEY WEBSITE)



SCALE 1"=2000' AT ORIGINAL SIZE

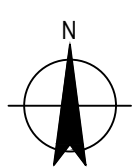
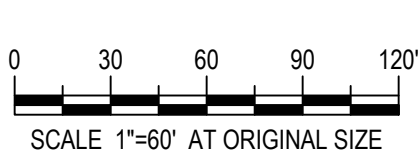


Rolling Frito-Lay Sales, LP
 Periodic Review Report - Nov. 22, 2017 to Nov. 22, 2018 - 202-218 Morgan Avenue BCP Site (#C224133)

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 Date | 12.6.2018

Site Location Map

Figure 1



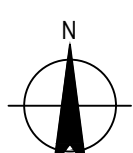
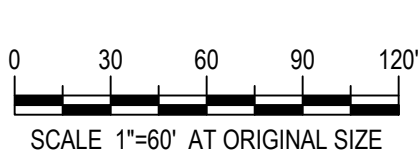
NOTES:
1. Aerial photograph is a 2014, 6-inch resolution, true color image taken from the U.S. Geological Survey website: <http://earthexplorer.usgs.gov/>
2. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.



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Site Layout

Figure 2



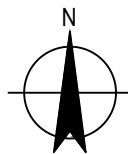
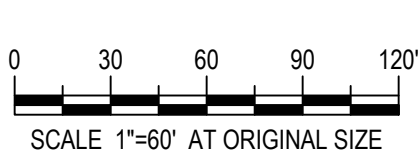
NOTES:
1. Aerial photograph is a 2014, 6-inch resolution, true color image taken from the U.S. Geological Survey website: <http://earthexplorer.usgs.gov/>
2. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.



Rolling Frito-Lay Sales, LP
Periodic Review Report - Nov. 22, 2017 to Nov. 22, 2018 - 202-218 Morgan Avenue BCP Site (#C224133)
Engineering Controls

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Figure 3

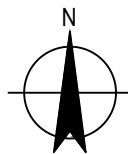
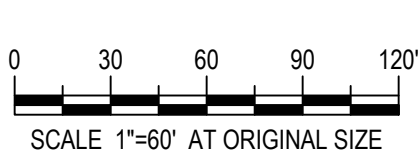


NOTES:
1. Only analytes that exceed groundwater standards are shown here. For complete results, see tables in report.
2. Aerial photograph is a 2014, 6-inch resolution, true color image taken from the U.S. Geological Survey website: <http://earthexplorer.usgs.gov/>
3. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.



Rolling Frito-Lay Sales, LP
Periodic Review Report - Nov. 22, 2017 to Nov. 22, 2018 - 202-218 Morgan Avenue BCP Site (#C224133)
Exceedances of Groundwater Standards - Total Metals

Job Number 86-16480
Revision A
Date 12.6.2018
Figure 4



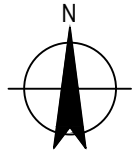
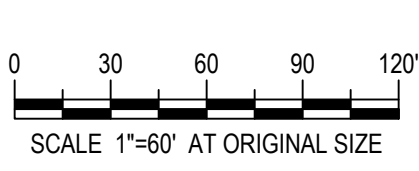
NOTES:
1. Only analytes that exceed groundwater standards are shown here. For complete results, see tables in report.
2. Aerial photograph is a 2014, 6-inch resolution, true color image taken from the U.S. Geological Survey website: <http://earthexplorer.usgs.gov/>
3. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.



Rolling Frito-Lay Sales, LP
Periodic Review Report - Nov. 22, 2017 to Nov. 22, 2018 - 202-218 Morgan Avenue BCP Site (#C224133)
Exceedances of Groundwater Standards - Dissolved Metals

Job Number 86-16480
Revision A
Date 12.11.2018
Figure 5





NOTES:
1. Aerial photograph is a 2014, 6-inch resolution, true color image taken from the U.S. Geological Survey website: <http://earthexplorer.usgs.gov/>
2. Site features taken from an as-built field survey completed by PS&S on August 21, 2013.



Rolling Frito-Lay Sales, LP
Periodic Review Report - Nov. 22, 2017 to Nov. 22, 2018 - 202-218 Morgan Avenue BCP Site (#C224133)
Groundwater Elevation and Flow Direction

Job Number 86-16480
Revision A
Date 12.11.2018

Figure 7

Tables



Table 1: (Page 1 of 1) Groundwater Elevation Data. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133.

Monitoring Well I.D.	Date	Reference Point	Reference Elevation (feet)	DTW (feet)	DOW (feet)	Water Elevation (feet)	Well Volume (gal)
MW-1	2009	Top of PVC	9.93	-	-	1.74	-
	2011			-	-	1.54	-
	5/14/2014			9.07	16.33	0.86	1.16
	6/4/2015			9.74	16.38	0.19	1.06
	5/26/2016			9.55	16.24	0.38	1.07
	5/22/2017			9.24	16.93	0.69	1.23
	5/30/2018			9.06	16.93	0.87	1.26
MW-2R	2009	Top of PVC	10.26	-	-	2.71	-
	2011			-	-	0.40	-
	7/4/2015			9.75	17.92	0.51	1.31
	6/4/2015			9.69	17.92	0.57	1.32
	5/26/2016			10.22	17.61	0.04	1.18
	5/22/2017			9.53	17.95	0.73	1.35
	5/30/2018			10.42	17.95	-0.16	1.20
MW-4	2009	Top of PVC	10.22	-	-	2.04	-
	2011			-	-	0.54	-
	5/14/2014			9.91	16.48	0.31	1.05
	6/4/2015			10.50	16.45	-0.28	0.95
	5/26/2016			10.76	16.28	-0.54	0.88
	5/22/2017			10.15	16.60	0.07	1.03
	5/30/2018			9.83	16.60	0.39	1.08
MW-5	2009	Top of PVC	10.77	-	-	1.76	-
	2011			-	-	-0.80	-
	5/14/2014			11.01	18.69	-0.24	1.23
	6/4/2015			9.91	18.60	0.86	1.39
	5/26/2016			12.65	18.58	-1.88	0.95
	5/22/2017			11.25	18.70	-0.48	1.19
	5/30/2018			10.46	18.70	0.31	1.32
MW-6	2009	Top of PVC	10.22	-	-	1.11	-
	2011			-	-	0.80	-
	5/14/2014			10.36	17.05	-0.14	1.07
	6/4/2015			10.81	17.08	-0.59	1.00
	5/26/2016			10.97	16.88	-0.75	0.95
	5/22/2017			10.55	17.10	-0.33	1.05
	5/30/2018			10.49	17.10	-0.27	1.06
MW-7	2009	Top of PVC	11.11	-	-	2.92	-
	2011			-	-	1.48	-
	5/14/2014			8.17	15.42	2.94	1.16
	6/4/2015			8.33	16.42	2.78	1.29
	5/26/2016			8.32	15.22	2.79	1.10
	5/22/2017			8.15	15.45	2.96	1.17
	5/30/2018			7.88	15.45	3.23	1.21
MW-8	2009	Top of PVC	11.43	-	-	2.50	-
	2011			-	-	2.32	-
	5/14/2014			8.85	14.45	2.58	0.90
	6/4/2015			8.92	14.45	2.51	0.88
	5/26/2016			8.70	14.20	2.73	0.88
	5/22/2017			8.88	14.60	2.55	0.92
	5/30/2018			8.61	14.60	2.82	0.96



Table 2: (Page 1 of 1) Groundwater Field Parameter Data. 202-218 Morgan Avenue BCP Site, Brooklyn, NY, BCP Site #C224133.

Well I.D.	Date	Time	Temp (°C)	Conductivity (mS/cm)	Salinity (%)	Dissolved Oxygen (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU)	Amount Purged (gal)	Comments
MW-1	5/30/2018	-	15.9	2.879	-	0.17	6.49	-146.0	301.0	3.50	Duplicate sample taken here. Water very slight black tint, slight odor.
		-	15.6	2.911	-	0.09	6.49	-170.0	189.0		
		-	15.6	2.936	-	0.08	6.48	-176.0	192.0		
		-	15.7	2.994	-	0.09	6.47	-180.0	178.0		
MW-2R	5/30/2018	-	15.2	1.911	-	0.71	6.70	-99.0	196.0	3.60	Water clear, no odor.
		-	15.3	1.896	-	0.25	6.56	-96.0	144.0		
		-	15.2	1.889	-	0.22	6.55	-100.0	151.0		
		-	15.2	1.882	-	0.16	6.57	-102.0	160.0		
MW-4	5/30/2018	-	15.4	3.931	-	0.60	7.14	-206.0	272.0	3.60	Water slight light brown tint, some odor.
		-	15.4	3.961	-	0.18	7.12	-283.0	279.0		
		-	15.3	4.075	-	0.10	7.12	-288.0	280.0		
		-	15.3	4.080	-	0.11	7.12	-289.0	281.0		
MW-5	5/30/2018	-	14.5	12.450	-	0.18	6.72	-206.0	421.0	4.00	MS/MSD sample taken here. Water clear, slight odor.
		-	14.3	12.190	-	0.11	6.69	-210.0	422.0		
		-	14.2	12.020	-	0.07	6.64	-216.0	417.0		
		-	14.3	11.790	-	0.08	6.63	-227.0	319.0		
		-	14.2	11.790	-	0.08	6.63	-221.0	301.0		
MW-6	5/30/2018	-	15.7	5.098	-	1.05	6.82	-166.0	32.0	3.20	Water slightly cloudy, fine black particles, some odor.
		-	15.7	5.132	-	0.38	6.84	-213.0	319.0		
		-	15.6	5.093	-	0.17	6.86	-255.0	166.0		
		-	15.6	5.045	-	0.09	6.87	-302.0	171.0		
		-	15.5	4.988	-	0.07	6.87	-369.0	97.0		
MW-7	5/30/2018	-	16.9	0.889	-	0.98	6.59	-8.0	499.0	3.70	Water clear, no odor.
		-	15.9	0.860	-	0.33	6.54	-19.0	211.0		
		-	15.5	0.655	-	0.18	6.48	-27.0	198.0		
		-	15.5	0.859	-	0.18	6.49	-29.0	210.0		
MW-8	5/30/2018	-	14.5	6.105	-	1.03	6.20	46.0	494.0	3.60	Water clear, no odor.
		-	14.5	6.044	-	0.84	6.20	32.0	334.0		
		-	14.5	6.315	-	0.65	6.19	25.0	20.0		
		-	14.5	6.349	-	0.62	6.18	23.0	24.0		

Field parameters collected during purging using a YSI ProDSS with flow thru cell and GeoPump peristaltic pump



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
ChemName	Units	TOGS 1.1.1						
Total Metals								
Aluminum, Total	µg/L		220	2,710	5,230	1,000	19.8	700
Antimony, Total	µg/L	3	<12U	6.53	2.1	0.7J	<0.42U	0.69J
Arsenic, Total	µg/L	25	<8U	4.26	12.1	2.5	1.54	3.01
Barium, Total	µg/L	1000	180	218.7	333.3	235.6	284.9	224.9
Beryllium, Total	µg/L	3 ^{#1}	<4U	0.17J	0.4J	<0.2U	<0.1U	<0.5U
Cadmium, Total	µg/L	5	<4U	0.83	2.1	0.5	0.06J	0.36
Calcium, Total	µg/L		210,000	166,000	211,000	189,000	276,000	182,000
Chromium, Total	µg/L	50	<50U	35.47	91.6	18.2	2.89	11.93
Cobalt, Total	µg/L		<20U	3.58	7.9	2	1.16	2.12
Copper, Total	µg/L	200	<50U	66.06	180	17.7	0.71J	21.1
Iron, Total	µg/L	300	4,100	21,500	24,000	7,160	3,710	6,260
Lead, Total	µg/L	25	6	147.4	360.1	85.7	0.84J	45.6
Magnesium, Total	µg/L	35000 ^{#1}	36,000	29,100	36,200	31,100	39,200	32,600
Manganese, Total	µg/L	300	3,000	2,458	3,322	2,939	2,792	2,093
Mercury, Total	µg/L	0.7	<1U	3.27	0.81	0.14J	<0.06U	<0.2U
Nickel, Total	µg/L	100	<50U	30.45	69.1	18.4	9.44	13.13
Potassium, Total	µg/L		18,000	13,900	17,500	16,300	20,700	16,100
Selenium, Total	µg/L	10	<40U	1.03J	2J	<1U	<1.73U	<5U
Silver, Total	µg/L	50	<20U	0.66	1.6	0.1J	<0.16U	0.17J
Sodium, Total	µg/L	20000	220,000J	290,000	315,000	342,000	477,000	369,000
Thallium, Total	µg/L	0.5 ^{#1}	<10U	0.04J	0.1J	<0.1U	<0.14U	<0.5U
Vanadium, Total	µg/L		<50U	9.55	34.1	4.3J	<1.57U	3.55J
Zinc, Total	µg/L	2000 ^{#1}	<50U	298.2	952.9	104.2	4.44J	82.02
Dissolved Metals								
Aluminum, Dissolved (Filtered)	µg/L		<180U	9.6J	10.6	8J	-	6.76J
Antimony, Dissolved (Filtered)	µg/L	3	<12U	0.17J	0.1J	1.2J	-	0.69J
Arsenic, Dissolved (Filtered)	µg/L	25	8.3	1.68	0.8	2.2	-	1.14
Barium, Dissolved (Filtered)	µg/L	1000	140	175.8	195.9	200.1	-	182.2
Beryllium, Dissolved (Filtered)	µg/L	3 ^{#1}	<4U	<0.5U	<0.5U	<0.2U	-	<0.5U
Cadmium, Dissolved (Filtered)	µg/L	5	<4U	<0.2U	<0.5U	<0.1U	-	<0.2U
Calcium, Dissolved (Filtered)	µg/L		180,000	193,000	159,000	198,000	-	183,000
Chromium, Dissolved (Filtered)	µg/L	50	<50U	3.34	3.04	2.9	-	0.96J
Cobalt, Dissolved (Filtered)	µg/L		<20U	0.82	1.3	1.3	-	1.56
Copper, Dissolved (Filtered)	µg/L	200	<50U	0.64J	0.3J	<0.3U	-	1.48
Iron, Dissolved (Filtered)	µg/L	300	760	7,470	5,360	1,920	-	25.6J
Lead, Dissolved (Filtered)	µg/L	25	<4U	<1U	<1U	0.2J	-	<1U
Magnesium, Dissolved (Filtered)	µg/L	35000 ^{#1}	30,000	27,300	30,800	30,300	-	26,400
Manganese, Dissolved (Filtered)	µg/L	300	2,500	2,728	2,886	3,222	-	1,771
Mercury, Dissolved (Filtered)	µg/L	0.7	<1U	<0.2U	<0.2U	<0.06U	-	<0.2U
Nickel, Dissolved (Filtered)	µg/L	100	<50U	7.43	10.17	14.1	-	8.2
Potassium, Dissolved (Filtered)	µg/L		15,000	14,200	15,800	16,400	-	15,900
Selenium, Dissolved (Filtered)	µg/L	10	<40U	1.29J	<100U	<1U	-	<5U
Silver, Dissolved (Filtered)	µg/L	50	<20U	<0.4U	<5U	<0.1U	-	<0.4U
Sodium, Dissolved (Filtered)	µg/L	20000	190,000J	356,000	298,000	382,000	-	430,000
Thallium, Dissolved (Filtered)	µg/L	0.5 ^{#1}	<10U	<0.5U	<0.5U	<0.1U	-	<0.5U
Vanadium, Dissolved (Filtered)	µg/L		<50U	0.35J	<5U	<0.6U	-	<5U
Zinc, Dissolved (Filtered)	µg/L	2000 ^{#1}	<50U	2.48J	4.87J	<2.6U	-	7.39J

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J - Indicates an estimated value

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Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

			Sample ID	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R
			Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
			Well ID	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R
ChemName		Units	TOGS 1.1.1						
Total Metals									
Aluminum, Total	µg/L		4,200J	404	1,690	33	193	35.5	
Antimony, Total	µg/L	3	<12U	3.12	2.1	0.3J	<0.42U	0.8J	
Arsenic, Total	µg/L	25	<8U	36.36	7.8	6.8	6.51	6.25	
Barium, Total	µg/L	1000	200	192.8	227.1	227.7	298	308.7	
Beryllium, Total	µg/L	3 ^{#1}	<4U	0.1J	0.2J	<0.2U	<0.1U	<0.5U	
Cadmium, Total	µg/L	5	<4U	0.19J	0.1J	<0.1U	0.2	<0.2U	
Calcium, Total	µg/L		320,000	88,100	93,300	73,700	73,300	82,200	
Chromium, Total	µg/L	50	<50U	10.5	10.4	0.5J	1.01	0.4J	
Cobalt, Total	µg/L		<20U	1.18	2.6	0.2	0.23J	<0.5U	
Copper, Total	µg/L	200	<50U	20.21	30.9	<0.3U	2.47	0.6J	
Iron, Total	µg/L	300	13,000J	58,600	24,100	14,000	14,100	17,300	
Lead, Total	µg/L	25	120J	73.18	178	1.9	13.48	2.01	
Magnesium, Total	µg/L	35000 ^{#1}	140,000	33,900	35,700	33,800	34,400	41,500	
Manganese, Total	µg/L	300	900	374.7	699.3	804.9	708.6	901.2	
Mercury, Total	µg/L	0.7	<1U	0.38	0.46	0.09J	0.06J	<0.2U	
Nickel, Total	µg/L	100	<50U	3.41	5.5	1.3J	1.75J	<2U	
Potassium, Total	µg/L		55,000	14,400	16,000	14,300	16,500	16,800	
Selenium, Total	µg/L	10	<40U	0.53J	<5U	<1U	<1.73U	<5U	
Silver, Total	µg/L	50	<20U	<0.4U	0.1J	<0.1U	<0.16U	<0.4U	
Sodium, Total	µg/L	20000	770,000J	142,000	221,000	200,000	273,000	178,000	
Thallium, Total	µg/L	0.5 ^{#1}	<10U	<0.5U	<0.5U	<0.1U	<0.14U	<0.5U	
Vanadium, Total	µg/L		<50U	6.59	8.1	<0.6U	<1.57U	<5U	
Zinc, Total	µg/L	2000 ^{#1}	120	68.19	80.8	<2.6U	5.88J	<10U	
Dissolved Metals									
Aluminum, Dissolved (Filtered)	µg/L		<180U	-	-	-	-	4.54J	
Antimony, Dissolved (Filtered)	µg/L	3	<12U	-	-	-	-	<4U	
Arsenic, Dissolved (Filtered)	µg/L	25	<8U	-	-	-	-	0.83	
Barium, Dissolved (Filtered)	µg/L	1000	160	-	-	-	-	231.6	
Beryllium, Dissolved (Filtered)	µg/L	3 ^{#1}	<4U	-	-	-	-	<0.5U	
Cadmium, Dissolved (Filtered)	µg/L	5	<4U	-	-	-	-	<0.2U	
Calcium, Dissolved (Filtered)	µg/L		320,000	-	-	-	-	88,800	
Chromium, Dissolved (Filtered)	µg/L	50	<50U	-	-	-	-	0.18J	
Cobalt, Dissolved (Filtered)	µg/L		<20U	-	-	-	-	0.18J	
Copper, Dissolved (Filtered)	µg/L	200	<50U	-	-	-	-	0.82J	
Iron, Dissolved (Filtered)	µg/L	300	870	-	-	-	-	35.1J	
Lead, Dissolved (Filtered)	µg/L	25	<4U	-	-	-	-	<1U	
Magnesium, Dissolved (Filtered)	µg/L	35000 ^{#1}	140,000	-	-	-	-	34,400	
Manganese, Dissolved (Filtered)	µg/L	300	830	-	-	-	-	915.9	
Mercury, Dissolved (Filtered)	µg/L	0.7	<1U	-	-	-	-	<0.2U	
Nickel, Dissolved (Filtered)	µg/L	100	<50U	-	-	-	-	0.87J	
Potassium, Dissolved (Filtered)	µg/L		55,000	-	-	-	-	17,400	
Selenium, Dissolved (Filtered)	µg/L	10	<40U	-	-	-	-	<5U	
Silver, Dissolved (Filtered)	µg/L	50	<20U	-	-	-	-	<0.4U	
Sodium, Dissolved (Filtered)	µg/L	20000	760,000J	-	-	-	-	213,000	
Thallium, Dissolved (Filtered)	µg/L	0.5 ^{#1}	<10U	-	-	-	-	<0.5U	
Vanadium, Dissolved (Filtered)	µg/L		<50U	-	-	-	-	<5U	
Zinc, Dissolved (Filtered)	µg/L	2000 ^{#1}	<50U	-	-	-	-	<10U	

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Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

			Sample ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
			Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
			Well ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
ChemName	Units	TOGS 1.1.1							
Total Metals									
Aluminum, Total	µg/L			250	103	87	616	148	5,000
Antimony, Total	µg/L	3		<12U	2.91	1.2J	1J	1.2J	3.39J
Arsenic, Total	µg/L	25		<8U	9.74	5.9	7.8	3.56	55.78
Barium, Total	µg/L	1000		660	92.03	80.4	80.8	112.5	290.4
Beryllium, Total	µg/L	3 ^{#1}		<4U	<0.5U	<0.5U	<0.2U	<0.1U	0.43J
Cadmium, Total	µg/L	5		<4U	0.05J	0.1J	0.3	0.5	2.74
Calcium, Total	µg/L			520,000J	272,000	294,000	207,000	220,000	291,000
Chromium, Total	µg/L	50		<50U	0.77J	2.8	2.2	0.81J	16.9
Cobalt, Total	µg/L			<20U	0.36	0.49J	1.6	0.69	13.26
Copper, Total	µg/L	200		<50U	1.12J	2.2	9.9	2.13	111.6
Iron, Total	µg/L	300		650	186	219	1,290	336	16,400
Lead, Total	µg/L	25		9	3.12	3.5	25	5.51	288.8
Magnesium, Total	µg/L	35000 ^{#1}		8,400J	6,600	12,300	16,200	30,700	36,900
Manganese, Total	µg/L	300		100	5.31	13	35.3	302.2	752.8
Mercury, Total	µg/L	0.7		<1U	<0.2U	<0.2U	<0.06U	<0.06U	0.4
Nickel, Total	µg/L	100		<50U	3.56	5.5	7.6	5.08	35.7
Potassium, Total	µg/L			64,000	70,700	77,800	74,200	53,200	52,000
Selenium, Total	µg/L	10		<40U	0.55J	<5U	<1U	<1.73U	1.97J
Silver, Total	µg/L	50		<20U	<0.4U	<0.4U	<0.1U	<0.16U	0.25J
Sodium, Total	µg/L	20000		250,000J	303,000	339,000	387,000	331,000	382,000
Thallium, Total	µg/L	0.5 ^{#1}		<10U	<0.5U	<0.5U	<0.1U	<0.14U	0.16J
Vanadium, Total	µg/L			<50U	0.92J	1.3J	3.3J	1.69J	21.8
Zinc, Total	µg/L	2000 ^{#1}		<50U	13.78	31.8	60.7	30.16	760.7
Dissolved Metals									
Aluminum, Dissolved (Filtered)	µg/L			<180U	-	-	-	-	9.43J
Antimony, Dissolved (Filtered)	µg/L	3		<12U	-	-	-	-	1.23J
Arsenic, Dissolved (Filtered)	µg/L	25		<8U	-	-	-	-	23.96
Barium, Dissolved (Filtered)	µg/L	1000		620	-	-	-	-	171.1
Beryllium, Dissolved (Filtered)	µg/L	3 ^{#1}		<4U	-	-	-	-	<0.5U
Cadmium, Dissolved (Filtered)	µg/L	5		<4U	-	-	-	-	<0.2U
Calcium, Dissolved (Filtered)	µg/L			440,000J	-	-	-	-	243,000
Chromium, Dissolved (Filtered)	µg/L	50		<50U	-	-	-	-	0.35J
Cobalt, Dissolved (Filtered)	µg/L			<20U	-	-	-	-	0.61
Copper, Dissolved (Filtered)	µg/L	200		<50U	-	-	-	-	<1U
Iron, Dissolved (Filtered)	µg/L	300		<280U	-	-	-	-	49.1J
Lead, Dissolved (Filtered)	µg/L	25		<4U	-	-	-	-	0.91J
Magnesium, Dissolved (Filtered)	µg/L	35000 ^{#1}		<2,000UJ	-	-	-	-	27,200
Manganese, Dissolved (Filtered)	µg/L	300		<40U	-	-	-	-	433.7
Mercury, Dissolved (Filtered)	µg/L	0.7		<1U	-	-	-	-	<0.2U
Nickel, Dissolved (Filtered)	µg/L	100		<50U	-	-	-	-	3.39
Potassium, Dissolved (Filtered)	µg/L			65,000	-	-	-	-	40,300
Selenium, Dissolved (Filtered)	µg/L	10		<40U	-	-	-	-	<5U
Silver, Dissolved (Filtered)	µg/L	50		<20U	-	-	-	-	<0.4U
Sodium, Dissolved (Filtered)	µg/L	20000		250,000J	-	-	-	-	457,000
Thallium, Dissolved (Filtered)	µg/L	0.5 ^{#1}		<10U	-	-	-	-	<0.5U
Vanadium, Dissolved (Filtered)	µg/L			<50U	-	-	-	-	<5U
Zinc, Dissolved (Filtered)	µg/L	2000 ^{#1}		<50U	-	-	-	-	3.52J

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Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
ChemName	Units	TOGS 1.1.1						
Total Metals								
Aluminum, Total	µg/L		<180U	2,380	589	242	8.24J	95.5
Antimony, Total	µg/L	3	<12U	3.01	0.9J	1.5J	3.31J	3.89J
Arsenic, Total	µg/L	25	25	11.91	3	3.7	7.57	4.06
Barium, Total	µg/L	1000	56	126.4	125.7	129.2	68.44	80.6
Beryllium, Total	µg/L	3 ^{#1}	<4U	0.12J	<0.5U	<0.2U	<0.1U	<0.5U
Cadmium, Total	µg/L	5	<4U	1.56	0.5	0.2J	<0.05U	0.16J
Calcium, Total	µg/L		210,000J	243,000	228,000	224,000	197,000	259,000
Chromium, Total	µg/L	50	<50U	8.36	3.6	1.7J	4.89	0.79J
Cobalt, Total	µg/L		<20U	3.84	2.4	1	1.08	0.96
Copper, Total	µg/L	200	<50U	49.9	13.2	<0.3U	0.51J	3.69
Iron, Total	µg/L	300	4,000	16,400	4,070	5,740	3,010	3,300
Lead, Total	µg/L	25	6	244.8	90.4	46	<1.71U	15.02
Magnesium, Total	µg/L	35000 ^{#1}	120,000J	147,000	156,000	306,000	174,000	170,000
Manganese, Total	µg/L	300	950	1,020	1,060	768.1	449.9	531
Mercury, Total	µg/L	0.7	<1U	6.02	0.93	0.29	<0.06U	<0.2U
Nickel, Total	µg/L	100	<50U	26.93	14	6.8	11.62	8.52
Potassium, Total	µg/L		73,000	75,300	72,500	115,000	84,000	91,400
Selenium, Total	µg/L	10	<40U	0.77J	<5U	<1U	<1.73U	<5U
Silver, Total	µg/L	50	<20U	0.17J	<0.4U	<0.1U	<0.16U	<0.4U
Sodium, Total	µg/L	20000	740,000J	1,140,000	1,030,000	3,020,000	1,800,000	1,470,000
Thallium, Total	µg/L	0.5 ^{#1}	<10U	0.06J	<0.5U	0.1J	<0.71U	<0.5U
Vanadium, Total	µg/L		<50U	12.03	4.2J	2J	<1.57U	<5U
Zinc, Total	µg/L	2000 ^{#1}	<50U	736.6	223.7	29.6	15.6	36.68
Dissolved Metals								
Aluminum, Dissolved (Filtered)	µg/L		<180U	-	-	-	-	3.75J
Antimony, Dissolved (Filtered)	µg/L	3	<12U	-	-	-	-	1.75J
Arsenic, Dissolved (Filtered)	µg/L	25	10	-	-	-	-	0.98
Barium, Dissolved (Filtered)	µg/L	1000	54	-	-	-	-	82.71
Beryllium, Dissolved (Filtered)	µg/L	3 ^{#1}	<4U	-	-	-	-	<0.5U
Cadmium, Dissolved (Filtered)	µg/L	5	<4U	-	-	-	-	<0.2U
Calcium, Dissolved (Filtered)	µg/L		220,000J	-	-	-	-	249,000
Chromium, Dissolved (Filtered)	µg/L	50	<50U	-	-	-	-	<1U
Cobalt, Dissolved (Filtered)	µg/L		<20U	-	-	-	-	0.73
Copper, Dissolved (Filtered)	µg/L	200	<50U	-	-	-	-	0.9J
Iron, Dissolved (Filtered)	µg/L	300	370	-	-	-	-	35J
Lead, Dissolved (Filtered)	µg/L	25	4	-	-	-	-	<1U
Magnesium, Dissolved (Filtered)	µg/L	35000 ^{#1}	120,000J	-	-	-	-	160,000
Manganese, Dissolved (Filtered)	µg/L	300	970	-	-	-	-	511.1
Mercury, Dissolved (Filtered)	µg/L	0.7	<1U	-	-	-	-	<0.2U
Nickel, Dissolved (Filtered)	µg/L	100	<50U	-	-	-	-	5.02
Potassium, Dissolved (Filtered)	µg/L		77,000	-	-	-	-	89,000
Selenium, Dissolved (Filtered)	µg/L	10	<40U	-	-	-	-	<5U
Silver, Dissolved (Filtered)	µg/L	50	<20U	-	-	-	-	<0.4U
Sodium, Dissolved (Filtered)	µg/L	20000	760,000J	-	-	-	-	1,540,000
Thallium, Dissolved (Filtered)	µg/L	0.5 ^{#1}	<10U	-	-	-	-	<0.5U
Vanadium, Dissolved (Filtered)	µg/L		<50U	-	-	-	-	<5U
Zinc, Dissolved (Filtered)	µg/L	2000 ^{#1}	<50U	-	-	-	-	7.43J

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Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

			Sample ID	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
			Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
			Well ID	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
ChemName	Units	TOGS 1.1.1							
Total Metals									
Aluminum, Total	µg/L		<180U	137	330	191	449	1,230	
Antimony, Total	µg/L	3	<12U	3.09	1.4J	1.1J	1.95J	4.92	
Arsenic, Total	µg/L	25	14	7.55	3.2	4.5	14.06	10.44	
Barium, Total	µg/L	1000	140	104.8	156	166.5	145.5	217.1	
Beryllium, Total	µg/L	3 ^{#1}	<4U	<0.5U	<0.5U	<0.2U	<0.1U	<0.5U	
Cadmium, Total	µg/L	5	<4U	0.93	0.2	0.8	1.45	0.59	
Calcium, Total	µg/L		360,000J	292,000	285,000	280,000	286,000	340,000	
Chromium, Total	µg/L	50	<50U	3.97	2.1	1.2J	3.44	3.75	
Cobalt, Total	µg/L		<20U	4.53	1.3	1.4	2.15	2.92	
Copper, Total	µg/L	200	<50U	3.64	4.9	7.1	11.45	28.28	
Iron, Total	µg/L	300	650	5,820	1,270	1,870	5,550	6,000	
Lead, Total	µg/L	25	10	9.28	17.4	15.1	25.67	92.14	
Magnesium, Total	µg/L	35000 ^{#1}	47,000J	46,300	52,500	57,400	40,000	49,000	
Manganese, Total	µg/L	300	640	1,526	757.3	952.6	1,118	1,165	
Mercury, Total	µg/L	0.7	<1U	<0.2U	<0.2U	<0.06U	<0.06U	<0.2U	
Nickel, Total	µg/L	100	<50U	22.81	8	9.4	11.82	11.23	
Potassium, Total	µg/L		66,000	61,100	54,200	60,800	49,900	61,000	
Selenium, Total	µg/L	10	<40U	0.51J	<5U	<1U	<1.73U	<5U	
Silver, Total	µg/L	50	<20U	<0.4U	<0.4U	<0.1U	<0.16U	<0.4U	
Sodium, Total	µg/L	20000	410,000J	385,000	393,000	470,000	408,000	490,000	
Thallium, Total	µg/L	0.5 ^{#1}	<10U	<0.5U	<0.5U	<0.1U	<0.14U	<0.5U	
Vanadium, Total	µg/L		<50U	2.66J	3.1J	2J	4.95J	6.45	
Zinc, Total	µg/L	2000 ^{#1}	<50U	819.6	121.7	98.3	177	157.5	
Dissolved Metals									
Aluminum, Dissolved (Filtered)	µg/L		<180U	-	-	-	-	9.72J	
Antimony, Dissolved (Filtered)	µg/L	3	<12U	-	-	-	-	3.82J	
Arsenic, Dissolved (Filtered)	µg/L	25	10	-	-	-	-	5.05	
Barium, Dissolved (Filtered)	µg/L	1000	130	-	-	-	-	159.1	
Beryllium, Dissolved (Filtered)	µg/L	3 ^{#1}	<4U	-	-	-	-	<0.5U	
Cadmium, Dissolved (Filtered)	µg/L	5	<4U	-	-	-	-	<0.2U	
Calcium, Dissolved (Filtered)	µg/L		340,000J	-	-	-	-	363,000	
Chromium, Dissolved (Filtered)	µg/L	50	<50U	-	-	-	-	0.43J	
Cobalt, Dissolved (Filtered)	µg/L		<20U	-	-	-	-	1.25	
Copper, Dissolved (Filtered)	µg/L	200	<50U	-	-	-	-	1.98	
Iron, Dissolved (Filtered)	µg/L	300	370	-	-	-	-	79.9	
Lead, Dissolved (Filtered)	µg/L	25	5	-	-	-	-	0.76J	
Magnesium, Dissolved (Filtered)	µg/L	35000 ^{#1}	46,000J	-	-	-	-	43,000	
Manganese, Dissolved (Filtered)	µg/L	300	630	-	-	-	-	1,155	
Mercury, Dissolved (Filtered)	µg/L	0.7	<1U	-	-	-	-	<0.2U	
Nickel, Dissolved (Filtered)	µg/L	100	<50U	-	-	-	-	6.44	
Potassium, Dissolved (Filtered)	µg/L		65,000	-	-	-	-	49,400	
Selenium, Dissolved (Filtered)	µg/L	10	<40U	-	-	-	-	<5U	
Silver, Dissolved (Filtered)	µg/L	50	<20U	-	-	-	-	<0.4U	
Sodium, Dissolved (Filtered)	µg/L	20000	400,000J	-	-	-	-	617,000	
Thallium, Dissolved (Filtered)	µg/L	0.5 ^{#1}	<10U	-	-	-	-	0.23J	
Vanadium, Dissolved (Filtered)	µg/L		<50U	-	-	-	-	<5U	
Zinc, Dissolved (Filtered)	µg/L	2000 ^{#1}	<50U	-	-	-	-	13.14	

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U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
ChemName	Units	TOGS 1.1.1						
Total Metals								
Aluminum, Total	µg/L		<180U	2.89J	40	50	15.5	56.2
Antimony, Total	µg/L	3	<12U	0.52J	0.2J	0.3J	<0.42U	<4U
Arsenic, Total	µg/L	25	<8U	1.4	2.8	2.3	1.47	1.78
Barium, Total	µg/L	1000	150	85.68	120.7	97.9	67.41	83.01
Beryllium, Total	µg/L	3 ^{#1}	<4U	<0.5U	<0.5U	<0.2U	<0.1U	<0.5U
Cadmium, Total	µg/L	5	<4U	<0.2U	<0.2U	<0.1U	<0.05U	<0.2U
Calcium, Total	µg/L		110,000	109,000	122,000	91,600	85,000	94,400
Chromium, Total	µg/L	50	<50U	0.99J	7.7	7.3	4.01	12.18
Cobalt, Total	µg/L		<20U	1.15	1.5	1.3	1.82	2.65
Copper, Total	µg/L	200	<50U	1.13J	1.9J	<0.3U	<0.38U	0.42J
Iron, Total	µg/L	300	6,400	3,170	5,040	4,630	3,750	5,330
Lead, Total	µg/L	25	<4U	<1U	1.1	0.7J	0.39J	0.71J
Magnesium, Total	µg/L	35000 ^{#1}	7,300	7,040	10,300	8,580	9,690	15,700
Manganese, Total	µg/L	300	830	823.6	913.5	801.4	1,074	1,957
Mercury, Total	µg/L	0.7	<1U	<0.2U	<0.2U	0.11J	<0.06U	<0.2U
Nickel, Total	µg/L	100	100	121.9	160	173.4	143.7	187.2
Potassium, Total	µg/L		13,000	9,020	12,200	11,400	8,360	8,530
Selenium, Total	µg/L	10	<40U	<5U	<5U	<1U	<1.73U	<5U
Silver, Total	µg/L	50	<20U	<0.4U	<0.4U	<0.1U	<0.16U	<0.4U
Sodium, Total	µg/L	20000	330,000J	153,000	186,000	138,000	81,800	58,200
Thallium, Total	µg/L	0.5 ^{#1}	<10U	<0.5U	<0.5U	<0.1U	<0.14U	<0.5U
Vanadium, Total	µg/L		<50U	<5U	<5U	<0.6U	<1.57U	<5U
Zinc, Total	µg/L	2000 ^{#1}	<50U	9.03J	42.6	<2.6U	<3.41U	3.89J
Dissolved Metals								
Aluminum, Dissolved (Filtered)	µg/L		<180U	68.3	-	4J	<3.27U	4.06J
Antimony, Dissolved (Filtered)	µg/L	3	<12U	0.75J	-	0.4J	<0.42U	<4U
Arsenic, Dissolved (Filtered)	µg/L	25	<8U	5.08	-	1.2	0.69	0.6
Barium, Dissolved (Filtered)	µg/L	1000	150	119.3	-	80.8	64.71	76.08
Beryllium, Dissolved (Filtered)	µg/L	3 ^{#1}	<4U	<0.5U	-	<0.2U	<0.1U	<0.5U
Cadmium, Dissolved (Filtered)	µg/L	5	<4U	0.05J	-	<0.1U	<0.05U	<0.2U
Calcium, Dissolved (Filtered)	µg/L		130,000	118,000	-	126,000	87,900	97,300
Chromium, Dissolved (Filtered)	µg/L	50	<50U	23.34	-	3	0.69J	0.69J
Cobalt, Dissolved (Filtered)	µg/L		<20U	1.28	-	1.6	1.85	2.6
Copper, Dissolved (Filtered)	µg/L	200	<50U	1.31	-	<0.3U	<0.38U	0.77J
Iron, Dissolved (Filtered)	µg/L	300	980	13,400	-	652	172	22.8J
Lead, Dissolved (Filtered)	µg/L	25	<4U	2.24	-	<0.1U	<0.34U	<1U
Magnesium, Dissolved (Filtered)	µg/L	35000 ^{#1}	8,500	8,240	-	7,540	9,920	15,900
Manganese, Dissolved (Filtered)	µg/L	300	950	853.8	-	1,038	1,130	1,688
Mercury, Dissolved (Filtered)	µg/L	0.7	<1U	<0.2U	-	<0.06U	<0.06U	<0.2U
Nickel, Dissolved (Filtered)	µg/L	100	110	135.9	-	158	142.7	169.5
Potassium, Dissolved (Filtered)	µg/L		15,000	10,400	-	10,200	9,080	8,570
Selenium, Dissolved (Filtered)	µg/L	10	<40U	0.59J	-	<1U	<1.73U	<5U
Silver, Dissolved (Filtered)	µg/L	50	<20U	0.13J	-	<0.1U	<0.16U	<0.4U
Sodium, Dissolved (Filtered)	µg/L	20000	380,000J	175,000	-	185,000	84,800	63,400
Thallium, Dissolved (Filtered)	µg/L	0.5 ^{#1}	<10U	<0.5U	-	<0.1U	<0.14U	<0.5U
Vanadium, Dissolved (Filtered)	µg/L		<50U	0.54J	-	<0.6U	<1.57U	<5U
Zinc, Dissolved (Filtered)	µg/L	2000 ^{#1}	<50U	6.31J	-	<2.6U	<3.41U	<10U

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

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U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
ChemName	Units	TOGS 1.1.1						
Total Metals								
Aluminum, Total	µg/L		220	230	39	2,310	9.3J	15.1
Antimony, Total	µg/L	3	<12U	0.5J	0.7J	0.4J	<0.42U	<4U
Arsenic, Total	µg/L	25	<8U	0.39J	0.7	0.8	0.33J	<0.5U
Barium, Total	µg/L	1000	270	376.1	464.6	707.2	1,023	803.5
Beryllium, Total	µg/L	3 ^{#1}	<4U	<0.5U	<0.5U	<0.2U	<0.1U	<0.5U
Cadmium, Total	µg/L	5	<4U	0.65	<0.2U	1.1	0.27	0.28
Calcium, Total	µg/L		150,000	221,000	280,000	302,000	466,000	445,000
Chromium, Total	µg/L	50	<50U	1.29	2.4	7	1.26	<1U
Cobalt, Total	µg/L		<20U	0.21	0.2J	1.5	0.17J	<0.5U
Copper, Total	µg/L	200	<50U	1.36J	1.9J	<0.3U	0.5J	<1U
Iron, Total	µg/L	300	13,000	25,800	29,700	54,300	36,600	17,500
Lead, Total	µg/L	25	7.8	2.72	0.9J	11.7	<1.71U	<1U
Magnesium, Total	µg/L	35000 ^{#1}	7,700	10,000	17,400	17,300	23,300	27,700
Manganese, Total	µg/L	300	780	1,180	1,368	1,654	1,559	901.3
Mercury, Total	µg/L	0.7	<1U	<0.2U	<0.2U	<0.06U	<0.06U	<0.2U
Nickel, Total	µg/L	100	<50U	0.93	1.9	5.1	1.98J	<2U
Potassium, Total	µg/L		18,000	15,900	22,600	26,100	32,700	31,600
Selenium, Total	µg/L	10	<40U	<5U	<5U	<1U	<1.73U	<5U
Silver, Total	µg/L	50	<20U	<0.4U	<0.4U	<0.1U	<0.16U	<0.4U
Sodium, Total	µg/L	20000	420,000J	504,000	519,000	731,000	1,350,000	1,020,000
Thallium, Total	µg/L	0.5 ^{#1}	<10U	<0.5U	<0.5U	<0.1U	<0.71U	<0.5U
Vanadium, Total	µg/L		<50U	2.15J	<5U	8.3	<1.57U	<5U
Zinc, Total	µg/L	2000 ^{#1}	<50U	6.77J	30	8.2J	<3.41U	<10U
Dissolved Metals								
Aluminum, Dissolved (Filtered)	µg/L		<180U	3.95J	-	3J	<16.4U	4.28J
Antimony, Dissolved (Filtered)	µg/L	3	<12U	0.19J	-	0.6J	<2.14U	<4U
Arsenic, Dissolved (Filtered)	µg/L	25	<8U	0.89	-	<0.1U	<0.82U	<0.5U
Barium, Dissolved (Filtered)	µg/L	1000	200	366.9	-	658.2	910.4	694.3
Beryllium, Dissolved (Filtered)	µg/L	3 ^{#1}	<4U	<0.5U	-	<0.2U	<0.53U	<0.5U
Cadmium, Dissolved (Filtered)	µg/L	5	<4U	<0.2U	-	<0.1U	<0.29U	0.09J
Calcium, Dissolved (Filtered)	µg/L		160,000	217,000	-	358,000	455,000	419,000
Chromium, Dissolved (Filtered)	µg/L	50	<50U	1.56	-	1.6J	<0.89U	<1U
Cobalt, Dissolved (Filtered)	µg/L		<20U	0.33J	-	<0.1U	<0.81U	<0.5U
Copper, Dissolved (Filtered)	µg/L	200	<50U	0.68J	-	<0.3U	<1.92U	1.1
Iron, Dissolved (Filtered)	µg/L	300	1,200	19,400	-	26,500	19,200	43J
Lead, Dissolved (Filtered)	µg/L	25	<4U	<1U	-	<0.1U	<1.71U	<1U
Magnesium, Dissolved (Filtered)	µg/L	35000 ^{#1}	8,200	11,600	-	17,900	24,300	24,900
Manganese, Dissolved (Filtered)	µg/L	300	810	971.8	-	1,939	1,551	744.6
Mercury, Dissolved (Filtered)	µg/L	0.7	<1U	<0.2U	-	<0.06U	<0.06U	<0.2U
Nickel, Dissolved (Filtered)	µg/L	100	<50U	3.29	-	5	<2.78U	1.44J
Potassium, Dissolved (Filtered)	µg/L		19,000	17,800	-	25,500	33,600	29,500
Selenium, Dissolved (Filtered)	µg/L	10	<40U	1.08J	-	<1U	<8.65U	<5U
Silver, Dissolved (Filtered)	µg/L	50	<20U	<0.4U	-	<0.1U	<0.81U	<0.4U
Sodium, Dissolved (Filtered)	µg/L	20000	450,000J	500,000	-	866,000	1,320,000	1,060,000
Thallium, Dissolved (Filtered)	µg/L	0.5 ^{#1}	<10U	<0.5U	-	<0.1U	<0.71U	<0.5U
Vanadium, Dissolved (Filtered)	µg/L		<50U	0.48J	-	<0.6U	<7.85U	<5U
Zinc, Dissolved (Filtered)	µg/L	2000 ^{#1}	<50U	3.82J	-	<2.6U	<17.05U	3.79J

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Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-2R	MW-5	MW-2R	MW-1	MW-1	MW-1
ChemName	Units	TOGS 1.1.1						
Total Metals								
Aluminum, Total	µg/L		1,700J	4,070	1,660	1,110	16.9	272
Antimony, Total	µg/L	3	<12U	4.21	2.4	0.8J	<0.42U	<4U
Arsenic, Total	µg/L	25	<8U	19.91	8.5	2.7	1.4	1.77
Barium, Total	µg/L	1000	160	167.5	224.5	225.3	277.4	192.2
Beryllium, Total	µg/L	3 ^{#1}	<4U	0.21J	<0.5U	<0.2U	<0.1U	<0.5U
Cadmium, Total	µg/L	5	<4U	2.45	0.1J	0.4	0.08J	0.22
Calcium, Total	µg/L		280,000	240,000	84,900	181,000	256,000	160,000
Chromium, Total	µg/L	50	<50U	14.57	10.1	18.8	2.73	5.81
Cobalt, Total	µg/L		<20U	6.66	2.3	2	1.36	1.51
Copper, Total	µg/L	200	<50U	88.29	26.2	18.3	<0.38U	7.73
Iron, Total	µg/L	300	9,000J	30,600	24,000	7,430	3,690	4,730
Lead, Total	µg/L	25	49J	375.6	165.3	76.1	0.83J	17.16
Magnesium, Total	µg/L	35000 ^{#1}	120,000	137,000	33,800	31,500	39,900	28,500
Manganese, Total	µg/L	300	790	1,016	624.2	2,788	2,707	1,841
Mercury, Total	µg/L	0.7	<1U	12.5	0.36	0.1J	<0.06U	<0.2U
Nickel, Total	µg/L	100	<50U	45.52	6.1	20.4	7.27	9.07
Potassium, Total	µg/L		48,000	70,000	15,300	16,500	19,200	14,200
Selenium, Total	µg/L	10	<40U	1.18J	<5U	<1U	<1.73U	<5U
Silver, Total	µg/L	50	<20U	0.33J	<0.4U	0.1J	<0.16U	<0.4U
Sodium, Total	µg/L	20000	660,000J	1,130,000	215,000	333,000	478,000	325,000
Thallium, Total	µg/L	0.5 ^{#1}	<10U	0.11J	<0.5U	<0.1U	<0.14U	<0.5U
Vanadium, Total	µg/L		<50U	22.13	7.6	4.1J	<1.57U	1.61J
Zinc, Total	µg/L	2000 ^{#1}	76	1,320	69.9	114.1	3.89J	31.44
Dissolved Metals								
Aluminum, Dissolved (Filtered)	µg/L		<180U	-	-	4J	-	6.66J
Antimony, Dissolved (Filtered)	µg/L	3	<12U	-	-	0.7J	-	0.55J
Arsenic, Dissolved (Filtered)	µg/L	25	<8U	-	-	1	-	1.01
Barium, Dissolved (Filtered)	µg/L	1000	160	-	-	213.5	-	180.8
Beryllium, Dissolved (Filtered)	µg/L	3 ^{#1}	<4U	-	-	<0.2U	-	<0.5U
Cadmium, Dissolved (Filtered)	µg/L	5	<4U	-	-	<0.1U	-	<0.2U
Calcium, Dissolved (Filtered)	µg/L		310,000	-	-	247,000	-	183,000
Chromium, Dissolved (Filtered)	µg/L	50	<50U	-	-	3.3	-	0.97J
Cobalt, Dissolved (Filtered)	µg/L		<20U	-	-	1.7	-	1.59
Copper, Dissolved (Filtered)	µg/L	200	<50U	-	-	<0.3U	-	0.4J
Iron, Dissolved (Filtered)	µg/L	300	750	-	-	2,090	-	24.4J
Lead, Dissolved (Filtered)	µg/L	25	<4U	-	-	0.1J	-	<1U
Magnesium, Dissolved (Filtered)	µg/L	35000 ^{#1}	140,000	-	-	32,800	-	26,600
Manganese, Dissolved (Filtered)	µg/L	300	860	-	-	3,892	-	1,726
Mercury, Dissolved (Filtered)	µg/L	0.7	<1U	-	-	<0.06U	-	<0.2U
Nickel, Dissolved (Filtered)	µg/L	100	<50U	-	-	14.6	-	8.42
Potassium, Dissolved (Filtered)	µg/L		54,000	-	-	16,800	-	15,800
Selenium, Dissolved (Filtered)	µg/L	10	<40U	-	-	<1U	-	<5U
Silver, Dissolved (Filtered)	µg/L	50	<20U	-	-	<0.1U	-	<0.4U
Sodium, Dissolved (Filtered)	µg/L	20000	750,000J	-	-	470,000	-	425,000
Thallium, Dissolved (Filtered)	µg/L	0.5 ^{#1}	<10U	-	-	<0.1U	-	<0.5U
Vanadium, Dissolved (Filtered)	µg/L		<50U	-	-	<0.6U	-	<5U
Zinc, Dissolved (Filtered)	µg/L	2000 ^{#1}	<50U	-	-	<2.6U	-	4.89J

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

^{#1} - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
 Site #C224133

		Sample ID	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
ChemName	Units	TOGS 1.1.1						
General Chemistry								
Alkalinity, Total	µg/L		347,000	400,000	766,000	437,000	398,000	364,000
Biological Oxygen Demand, Five day	µg/L		10,600	<50,000U	<40,000U	<10,000U	5,400	2,800
Chemical Oxygen Demand	µg/L		690,000	1,300,000	2,800,000	46,000	20,000	47,000
Chloride	µg/L	250000	-	600,000	540,000	560,000	840,000	727,000
Total Organic Carbon	µg/L		5,400	10,600	7,500	3,500	1,700	4,330
Total Organic Halogen	ug/l		-	<20U	<20U	27.7	54	44.1
PCBs								
Aroclor 1016	µg/L		<0.05U	<0.083U	<0.083U	<0.021U	<0.021U	<0.0833U
Aroclor 1221	µg/L		<0.05U	<0.083U	<0.083U	<0.028U	<0.028U	<0.0833U
Aroclor 1232	µg/L		<0.05U	<0.083U	<0.083U	<0.012U	<0.012U	<0.0833U
Aroclor 1242	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	0.043J	<0.0833U
Aroclor 1248	µg/L		<0.05U	0.768	1.46	0.286	<0.014U	0.262
Aroclor 1254	µg/L		<0.05U	0.416	0.746	0.137	<0.022U	0.142
Aroclor 1260	µg/L		<0.05U	<0.083U	0.119	<0.023U	<0.023U	0.035J
Aroclor 1262	µg/L		-	<0.083U	<0.083U	-	-	-
Aroclor 1268	µg/L		-	<0.083U	<0.083U	-	-	-
PCBs, Total	µg/L	0.09	<0.05U	1.18	2.33	0.423	0.043	0.439

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
 Site #C224133

		Sample ID	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R
ChemName	Units	TOGS 1.1.1						
General Chemistry								
Alkalinity, Total	µg/L		308,000	312,000	317,000	271,000	281,000	298,000
Biological Oxygen Demand, Five day	µg/L		<6,000U	<10,000U	<5,000U	<2,000U	<2,000U	<2,000U
Chemical Oxygen Demand	µg/L		32,900	74,000	55,000	22,000	18,000	6,000J
Chloride	µg/L	250000	-	270,000	340,000	340,000	430,000	376,000
Total Organic Carbon	µg/L		2,800	11,200	3,200	2,600	2,300	3,120
Total Organic Halogen	ug/l		-	26.9	20.9	14.1J	41.1	19.9J
PCBs								
Aroclor 1016	µg/L		<0.05U	<0.083U	<0.083U	<0.021U	<0.021U	<0.0833U
Aroclor 1221	µg/L		<0.05U	<0.083U	<0.083U	<0.028U	<0.028U	<0.0833U
Aroclor 1232	µg/L		<0.05U	<0.083U	<0.083U	<0.012U	<0.012U	<0.0833U
Aroclor 1242	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	<0.014U	<0.0833U
Aroclor 1248	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	<0.014U	<0.0833U
Aroclor 1254	µg/L		<0.05U	<0.083U	<0.083U	0.034J	<0.022U	<0.0833U
Aroclor 1260	µg/L		<0.05U	<0.083U	<0.083U	<0.023U	<0.023U	<0.0833U
Aroclor 1262	µg/L		-	<0.083U	<0.083U	-	-	-
Aroclor 1268	µg/L		-	<0.083U	<0.083U	-	-	-
PCBs, Total	µg/L	0.09	<0.05U	<0.083U	<0.083U	0.034J	<0.014	<0.0833U

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
 Site #C224133

		Sample ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
ChemName	Units	TOGS 1.1.1						
General Chemistry								
Alkalinity, Total	µg/L		446,000	186,000	83,400	96,800	484,000	586,000
Biological Oxygen Demand, Five day	µg/L		11,700	<5,000U	<5,000U	4,300	<5,000U	<5,000U
Chemical Oxygen Demand	µg/L		1,170,000	150,000	110,000	99,000	82,000	100,000
Chloride	µg/L	250000	-	460,000	560,000	620,000	640,000	879,000
Total Organic Carbon	µg/L		26,900	52,100	25,000	25,000	17,000	17,000
Total Organic Halogen	ug/l		-	47.4	50.5	36.9	42	19.6J
PCBs								
Aroclor 1016	µg/L		<0.05U	<0.083U	<0.083U	<0.021U	<0.021U	<0.0833U
Aroclor 1221	µg/L		<0.05U	<0.083U	<0.083U	<0.028U	<0.028U	<0.0833U
Aroclor 1232	µg/L		<0.05U	<0.083U	<0.083U	<0.012U	<0.012U	<0.0833U
Aroclor 1242	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	0.045J	<0.0833U
Aroclor 1248	µg/L		<0.05U	0.11	<0.083U	<0.014U	<0.014U	0.158
Aroclor 1254	µg/L		<0.05U	<0.083U	<0.083U	<0.022U	<0.022U	0.114
Aroclor 1260	µg/L		<0.05U	<0.083U	<0.083U	<0.023U	<0.023U	0.044J
Aroclor 1262	µg/L		-	<0.083U	<0.083U	-	-	-
Aroclor 1268	µg/L		-	<0.083U	<0.083U	-	-	-
PCBs, Total	µg/L	0.09	<0.05U	0.11	<0.083U	<0.012U	0.045	0.316

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
 Site #C224133

		Sample ID	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
ChemName	Units	TOGS 1.1.1						
General Chemistry								
Alkalinity, Total	µg/L		637,000	387,000	455,000	370,000	377,000	421,000
Biological Oxygen Demand, Five day	µg/L		21,000	13,000	7,400	<40,000U	<2,000U	<5,000U
Chemical Oxygen Demand	µg/L		324,000	220,000	260,000	150,000	73,000	51,000
Chloride	µg/L	250000	-	1,400,000	1,900,000	4,600,000	3,100,000	3,400,000
Total Organic Carbon	µg/L		18,800	23,200	13,000	6,200	9,000	13,900
Total Organic Halogen	ug/l		-	66.5	41.4	72.2	81.1	80.3
PCBs								
Aroclor 1016	µg/L		<0.05U	<0.083U	<0.083U	<0.021U	<0.021U	<0.0833U
Aroclor 1221	µg/L		<0.05U	<0.083U	<0.083U	<0.028U	<0.028U	<0.0833U
Aroclor 1232	µg/L		<0.05U	<0.083U	<0.083U	<0.012U	<0.012U	<0.0833U
Aroclor 1242	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	<0.014U	<0.0833U
Aroclor 1248	µg/L		<0.05U	0.195	0.216	<0.014U	<0.014U	<0.0833U
Aroclor 1254	µg/L		<0.05U	0.17	0.153	<0.022U	<0.022U	<0.0833U
Aroclor 1260	µg/L		<0.05U	0.084	0.103	<0.023U	<0.023U	<0.0833U
Aroclor 1262	µg/L		-	<0.083U	<0.083U	-	-	-
Aroclor 1268	µg/L		-	<0.083U	<0.083U	-	-	-
PCBs, Total	µg/L	0.09	<0.05U	0.449	0.472	<0.012U	<0.014	<0.0833U

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
 Site #C224133

		Sample ID	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
ChemName	Units	TOGS 1.1.1						
General Chemistry								
Alkalinity, Total	µg/L		530,000	560,000	807,000	718,000	492,000	569,000
Biological Oxygen Demand, Five day	µg/L		12,300	26,000	48,000	29,000	15,000	<10,000U
Chemical Oxygen Demand	µg/L		994,000	320,000	180,000	580,000	71,000	95,000
Chloride	µg/L	250000	-	620,000	660,000	780,000	980,000	1,170,000
Total Organic Carbon	µg/L		24,000	35,100	21,000	22,000	16,000	15,800
Total Organic Halogen	ug/l		-	47.4	35.7	30.5	50.8	50.7
PCBs								
Aroclor 1016	µg/L		<0.05U	<0.083U	<0.083U	<0.021U	<0.021U	<0.0833U
Aroclor 1221	µg/L		<0.05U	<0.083U	<0.083U	<0.028U	<0.028U	<0.0833U
Aroclor 1232	µg/L		<0.05U	<0.083U	<0.083U	<0.012U	<0.012U	<0.0833U
Aroclor 1242	µg/L		<0.05U	0.279	<0.083U	<0.014U	0.026J	<0.0833U
Aroclor 1248	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	<0.014U	0.075J
Aroclor 1254	µg/L		<0.05U	0.187	<0.083U	0.022J	<0.022U	0.058J
Aroclor 1260	µg/L		<0.05U	<0.083U	<0.083U	<0.023U	<0.023U	0.036J
Aroclor 1262	µg/L		-	<0.083U	<0.083U	-	-	-
Aroclor 1268	µg/L		-	<0.083U	<0.083U	-	-	-
PCBs, Total	µg/L	0.09	<0.05U	0.466	<0.083U	0.022J	0.026	0.169J

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
 Site #C224133

		Sample ID	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
ChemName	Units	TOGS 1.1.1						
General Chemistry								
Alkalinity, Total	µg/L		291,000	330,000	323,000	319,000	265,000	238,000
Biological Oxygen Demand, Five day	µg/L		10,300	14,000	3,300	<2,000U	<2,000U	<2,000U
Chemical Oxygen Demand	µg/L		199,000	35,000	19,000J	37,000	4,100J	<10,000U
Chloride	µg/L	250000	-	250,000	240,000	170,000	91,000	108,000
Total Organic Carbon	µg/L		5,200	6,440	3,900	4,000	2,700	3,940
Total Organic Halogen	ug/l		-	50.4	27.9	26.3	63.6	74.8
PCBs								
Aroclor 1016	µg/L		<0.05U	<0.083U	<0.083U	<0.021U	<0.021U	<0.0833U
Aroclor 1221	µg/L		<0.05U	<0.083U	<0.083U	<0.028U	<0.028U	<0.0833U
Aroclor 1232	µg/L		<0.05U	<0.083U	<0.083U	<0.012U	<0.012U	<0.0833U
Aroclor 1242	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	<0.014U	<0.0833U
Aroclor 1248	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	<0.014U	<0.0833U
Aroclor 1254	µg/L		<0.05U	<0.083U	<0.083U	<0.022U	<0.022U	<0.0833U
Aroclor 1260	µg/L		<0.05U	<0.083U	<0.083U	<0.023U	<0.023U	<0.0833U
Aroclor 1262	µg/L		-	<0.083U	<0.083U	-	-	-
Aroclor 1268	µg/L		-	<0.083U	<0.083U	-	-	-
PCBs, Total	µg/L	0.09	<0.05U	<0.083U	<0.083U	<0.012U	<0.014	<0.0833U

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
 Site #C224133

		Sample ID	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
ChemName	Units	TOGS 1.1.1						
General Chemistry								
Alkalinity, Total	µg/L		613,000	575,000	564,000	521,000	505,000	453,000
Biological Oxygen Demand, Five day	µg/L		<6,000U	3,400	<2,000U	<2,000U	2,800	<2,000U
Chemical Oxygen Demand	µg/L		359,000	49,000	42,000	56,000	55,000	29,000
Chloride	µg/L	250000	-	740,000	940,000	1,400,000	2,300,000	2,240,000
Total Organic Carbon	µg/L		5,500	7,620	2,200	1,600	1,000	3,690J
Total Organic Halogen	ug/l		-	40.5	62.1	11.9J	40.8	46.2
PCBs								
Aroclor 1016	µg/L		<0.05U	<0.083U	<0.083U	<0.021U	<0.021U	<0.0833U
Aroclor 1221	µg/L		<0.05U	<0.083U	<0.083U	<0.028U	<0.028U	<0.0833U
Aroclor 1232	µg/L		<0.05U	<0.083U	<0.083U	<0.012U	<0.012U	<0.0833U
Aroclor 1242	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	<0.014U	<0.0833U
Aroclor 1248	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	<0.014U	<0.0833U
Aroclor 1254	µg/L		<0.05U	<0.083U	<0.083U	<0.022U	<0.022U	<0.0833U
Aroclor 1260	µg/L		<0.05U	<0.083U	<0.083U	<0.023U	<0.023U	<0.0833U
Aroclor 1262	µg/L		-	<0.083U	<0.083U	-	-	-
Aroclor 1268	µg/L		-	<0.083U	<0.083U	-	-	-
PCBs, Total	µg/L	0.09	<0.05U	<0.083U	<0.083U	<0.012U	<0.014	<0.0833U

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
 Site #C224133

		Sample ID	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate	Duplicate
		Monitoring Round	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-2R	MW-5	MW-2R	MW-1	MW-1	MW-1
ChemName	Units	TOGS 1.1.1						
General Chemistry								
Alkalinity, Total	µg/L		-	391,000	315,000	436,000	403,000	363,000
Biological Oxygen Demand, Five day	µg/L		-	23,000	<5,000U	<10,000U	<2,000U	3,300
Chemical Oxygen Demand	µg/L		-	230,000	80,000	44,000	27,000	24,000
Chloride	µg/L	250000	-	1,300,000	350,000	560,000	840,000	737,000
Total Organic Carbon	µg/L		-	22,700	3,400	3,400	1,800	4,250
Total Organic Halogen	ug/l		-	46.1	22	24.7	61.1	56.7
PCBs								
Aroclor 1016	µg/L		<0.05U	<0.083U	<0.083U	<0.021U	<0.021U	<0.0833U
Aroclor 1221	µg/L		<0.05U	<0.083U	<0.083U	<0.028U	<0.028U	<0.0833U
Aroclor 1232	µg/L		<0.05U	<0.083U	<0.083U	<0.012U	<0.012U	<0.0833U
Aroclor 1242	µg/L		<0.05U	<0.083U	<0.083U	<0.014U	0.061	<0.0833U
Aroclor 1248	µg/L		<0.05U	<0.083U	<0.083U	0.41	<0.014U	0.218
Aroclor 1254	µg/L		<0.05U	<0.083U	<0.083U	0.238	<0.022U	0.124
Aroclor 1260	µg/L		<0.05U	<0.083U	<0.083U	<0.023U	<0.023U	0.031J
Aroclor 1262	µg/L		-	<0.083U	<0.083U	-	-	-
Aroclor 1268	µg/L		-	<0.083U	<0.083U	-	-	-
PCBs, Total	µg/L	0.09	<0.05U	<0.083U	<0.083U	0.648	0.061	0.373

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
		Monitoring Event	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
ChemName	Units	TOGS 1.1.1						
VOCs								
1,1,1-trichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1,2,2-tetrachloroethane	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L		-	<2.5U	-	<0.7U	<0.7U	<2.5U
1,1,2-trichloroethane	µg/L	1	<1U	<1.5U	<1.5U	<0.5U	<0.5U	<1.5U
1,1-dichloroethane	µg/L	5	<1U	<2.5U	0.81J	<0.7U	<0.7U	<2.5U
1,1-dichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,2,3-trichlorobenzene	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2,4-trichlorobenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromo-3-chloropropane	µg/L	0.04	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromoethane	µg/L	5	<1U	<2U	<2U	<0.65U	<0.65U	<2U
1,2-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dichloroethane	µg/L	0.6	<0.5U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
1,2-dichloropropane	µg/L	1	<1U	<1U	<1U	<0.13U	<0.14U	<1U
1,3-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dioxane	µg/L		-	<250U	<250U	<41U	<61U	<250U
2-butanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1.9U	<1.9U	<5U
2-hexanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
4-methyl-2-pentanone	µg/L		<1U	<5U	<5U	<1U	<1U	<5U
Acetone	µg/L	50 ^{#1}	<10U	2.7J	<5U	<1.5U	4.8J	<5U
Benzene	µg/L	1	<0.5U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Bromochloromethane	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Bromodichloromethane	µg/L	5	<1U	<0.5U	<0.5U	<0.19U	<0.19U	<0.5U
Bromoform	µg/L	50 ^{#1}	<1UJ	<2U	<2U	<0.65U	<0.65U	<2U
Bromomethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Carbon disulfide	µg/L	60 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
Carbon tetrachloride	µg/L	5	<1U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
Chlorobenzene	µg/L	5	1	0.72J	0.81J	0.77J	0.71J	<2.5U
Chloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroform	µg/L	7	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloromethane	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,2-dichloroethene	µg/L	5	<1U	2.1J	2.7	1.5J	80	17
cis-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.14U	<0.14U	<0.5U
Cyclohexane	µg/L		<1U	<10U	-	<0.27U	<0.27U	<10U
Dibromochloromethane	µg/L	50 ^{#1}	<1U	<0.5U	<0.5U	<0.15U	<0.15U	<0.5U
Dichlorodifluoromethane	µg/L	5	<1U	<5U	<5U	<1U	<1U	<5U
Ethylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Isopropylbenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Methyl acetate	µg/L		-	<2U	-	<0.23U	<0.23U	<2U
Methyl cyclohexane	µg/L		<1U	<10U	-	<0.4U	<0.4U	<10U
Methyl tert butyl ether	µg/L	10 ^{#1}	1.5	4.6	21	5	7	66
Methylene chloride	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
o-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
p/m-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Styrene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Tetrachloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Toluene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Trichloroethene	µg/L	5	<1UJ	0.17J	<0.5U	<0.18U	<0.18U	<0.5U
Trichlorofluoromethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Vinyl chloride	µg/L	2	0.4	5.8	24	9.9	92	53

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

^{#1} - Guidance value

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U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R
		Monitoring Event	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R	MW-2R
ChemName	Units	TOGS 1.1.1						
VOCs								
1,1,1-trichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1,2,2-tetrachloroethane	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L		-	<2.5U	-	<0.7U	<0.7U	<2.5U
1,1,2-trichloroethane	µg/L	1	<1U	<1.5U	<1.5U	<0.5U	<0.5U	<1.5U
1,1-dichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1-dichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,2,3-trichlorobenzene	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2,4-trichlorobenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromo-3-chloropropane	µg/L	0.04	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromoethane	µg/L	5	<1U	<2U	<2U	<0.65U	<0.65U	<2U
1,2-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dichloroethane	µg/L	0.6	<0.5U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
1,2-dichloropropane	µg/L	1	<1U	<1U	<1U	<0.13U	<0.14U	<1U
1,3-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dioxane	µg/L		-	<250U	<250U	<41U	<61U	<250U
2-butanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1.9U	<1.9U	<5U
2-hexanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
4-methyl-2-pentanone	µg/L		<1U	<5U	<5U	<1U	<1U	<5U
Acetone	µg/L	50 ^{#1}	<10U	2.3J	<5U	<1.5U	<1.5U	<5U
Benzene	µg/L	1	<0.5U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Bromochloromethane	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Bromodichloromethane	µg/L	5	<1U	<0.5U	<0.5U	<0.19U	<0.19U	<0.5U
Bromoform	µg/L	50 ^{#1}	<1UJ	<2U	<2U	<0.65U	<0.65U	<2U
Bromomethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Carbon disulfide	µg/L	60 ^{#1}	<1U	<5U	2.2J	<1U	<1U	<5U
Carbon tetrachloride	µg/L	5	<1U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
Chlorobenzene	µg/L	5	1	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroform	µg/L	7	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloromethane	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.14U	<0.14U	<0.5U
Cyclohexane	µg/L		<1U	<10U	-	<0.27U	<0.27U	<10U
Dibromochloromethane	µg/L	50 ^{#1}	<1U	<0.5U	<0.5U	<0.15U	<0.15U	<0.5U
Dichlorodifluoromethane	µg/L	5	<1U	<5U	<5U	<1U	<1U	<5U
Ethylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Isopropylbenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Methyl acetate	µg/L		-	<2U	-	<0.23U	<0.23U	<2U
Methyl cyclohexane	µg/L		<1U	<10U	-	<0.4U	<0.4U	<10U
Methyl tert butyl ether	µg/L	10 ^{#1}	1.6	1.6J	1.1J	<0.7U	0.77J	<2.5U
Methylene chloride	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
o-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
p/m-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Styrene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Tetrachloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Toluene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Trichloroethene	µg/L	5	<1UJ	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Trichlorofluoromethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Vinyl chloride	µg/L	2	4.7	<1U	3.4	2.5	0.98J	0.87J

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^{#1} - Guidance value

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U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
		Monitoring Event	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
ChemName	Units	TOGS 1.1.1						
VOCs								
1,1,1-trichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1,2,2-tetrachloroethane	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L		-	<2.5U	-	<0.7U	<0.7U	<2.5U
1,1,2-trichloroethane	µg/L	1	<1U	<1.5U	<1.5U	<0.5U	<0.5U	<1.5U
1,1-dichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1-dichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,2,3-trichlorobenzene	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2,4-trichlorobenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromo-3-chloropropane	µg/L	0.04	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromoethane	µg/L	5	<1U	<2U	<2U	<0.65U	<0.65U	<2U
1,2-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dichloroethane	µg/L	0.6	<0.5U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
1,2-dichloropropane	µg/L	1	<1U	<1U	<1U	<0.13U	<0.14U	<1U
1,3-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dioxane	µg/L		-	<250U	<250U	<41U	<61U	<250U
2-butanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1.9U	<1.9U	<5U
2-hexanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
4-methyl-2-pentanone	µg/L		<1U	<5U	<5U	<1U	<1U	<5U
Acetone	µg/L	50 ^{#1}	4	5	<5U	2.3J	5.9	<5U
Benzene	µg/L	1	<0.5U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Bromochloromethane	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Bromodichloromethane	µg/L	5	<1U	<0.5U	<0.5U	<0.19U	<0.19U	<0.5U
Bromoform	µg/L	50 ^{#1}	<1UJ	<2U	<2U	<0.65U	<0.65U	<2U
Bromomethane	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Carbon disulfide	µg/L	60 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
Carbon tetrachloride	µg/L	5	<1U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
Chlorobenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroform	µg/L	7	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloromethane	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.14U	<0.14U	<0.5U
Cyclohexane	µg/L		<1U	<10U	-	<0.27U	<0.27U	<10U
Dibromochloromethane	µg/L	50 ^{#1}	<1U	<0.5U	<0.5U	<0.15U	<0.15U	<0.5U
Dichlorodifluoromethane	µg/L	5	<1UJ	<5U	<5U	<1U	<1U	<5U
Ethylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Isopropylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Methyl acetate	µg/L		-	<2U	-	<0.23U	<0.23U	<2U
Methyl cyclohexane	µg/L		<1U	<10U	-	<0.4U	<0.4U	<10U
Methyl tert butyl ether	µg/L	10 ^{#1}	4	13	11	32	37	39
Methylene chloride	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
o-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
p/m-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Styrene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Tetrachloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Toluene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Trichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Trichlorofluoromethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Vinyl chloride	µg/L	2	<1U	<1U	<1U	<0.07U	<0.07U	<1U

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
		Monitoring Event	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
ChemName	Units	TOGS 1.1.1						
VOCs								
1,1,1-trichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1,2,2-tetrachloroethane	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L		-	<2.5U	-	<0.7U	<0.7U	<2.5U
1,1,2-trichloroethane	µg/L	1	<1U	<1.5U	<1.5U	<0.5U	<0.5U	<1.5U
1,1-dichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1-dichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,2,3-trichlorobenzene	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2,4-trichlorobenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromo-3-chloropropane	µg/L	0.04	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromoethane	µg/L	5	<1U	<2U	<2U	<0.65U	<0.65U	<2U
1,2-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dichloroethane	µg/L	0.6	<0.5U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
1,2-dichloropropane	µg/L	1	<1U	<1U	<1U	<0.13U	<0.14U	<1U
1,3-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dioxane	µg/L		-	<250U	<250U	<41U	<61U	<250U
2-butanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1.9U	<1.9U	<5U
2-hexanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
4-methyl-2-pentanone	µg/L		<1U	<5U	<5U	<1U	<1U	<5U
Acetone	µg/L	50 ^{#1}	<10U	2.2J	<5U	<1.5U	<1.5U	2.2J
Benzene	µg/L	1	<0.5U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Bromochloromethane	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Bromodichloromethane	µg/L	5	<1U	<0.5U	<0.5U	<0.19U	<0.19U	<0.5U
Bromoform	µg/L	50 ^{#1}	<1UJ	<2U	<2U	<0.65U	<0.65U	<2U
Bromomethane	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Carbon disulfide	µg/L	60 ^{#1}	<1U	<5U	3.5J	<1U	<1U	<5U
Carbon tetrachloride	µg/L	5	<1U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
Chlorobenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroform	µg/L	7	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloromethane	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.14U	<0.14U	<0.5U
Cyclohexane	µg/L		<1U	<10U	-	<0.27U	<0.27U	<10U
Dibromochloromethane	µg/L	50 ^{#1}	<1U	<0.5U	<0.5U	<0.15U	<0.15U	<0.5U
Dichlorodifluoromethane	µg/L	5	<1UJ	<5U	<5U	<1U	<1U	<5U
Ethylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Isopropylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Methyl acetate	µg/L		-	<2U	-	<0.23U	<0.23U	<2U
Methyl cyclohexane	µg/L		<1U	<20U	-	<0.4U	<0.4U	<10U
Methyl tert butyl ether	µg/L	10 ^{#1}	16	9.3	10	5.8	7.9	12
Methylene chloride	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
o-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
p/m-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Styrene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Tetrachloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Toluene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Trichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Trichlorofluoromethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Vinyl chloride	µg/L	2	<1U	<1U	<1U	<0.07U	<0.07U	<1U

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

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U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
		Monitoring Event	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
ChemName	Units	TOGS 1.1.1						
VOCs								
1,1,1-trichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1,2,2-tetrachloroethane	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L		-	<2.5U	-	<0.7U	<0.7U	<2.5U
1,1,2-trichloroethane	µg/L	1	<1U	<1.5U	<1.5U	<0.5U	<0.5U	<1.5U
1,1-dichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1-dichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,2,3-trichlorobenzene	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2,4-trichlorobenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromo-3-chloropropane	µg/L	0.04	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromoethane	µg/L	5	<1U	<2U	<2U	<0.65U	<0.65U	<2U
1,2-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dichloroethane	µg/L	0.6	<0.5U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
1,2-dichloropropane	µg/L	1	<1U	<1U	<1U	<0.13U	<0.14U	<1U
1,3-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dioxane	µg/L		-	<250U	<250U	<41U	<61U	<250U
2-butanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1.9U	<1.9U	<5U
2-hexanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
4-methyl-2-pentanone	µg/L		<1U	<5U	<5U	<1U	<1U	<5U
Acetone	µg/L	50 ^{#1}	12	3.7J	<5U	2J	9.8	4.5J
Benzene	µg/L	1	1.1	<0.5U	0.34J	<0.16U	<0.16U	<0.5U
Bromochloromethane	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Bromodichloromethane	µg/L	5	<1U	<0.5U	<0.5U	<0.19U	<0.19U	<0.5U
Bromoform	µg/L	50 ^{#1}	<1UJ	<2U	<2U	<0.65U	<0.65U	<2U
Bromomethane	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Carbon disulfide	µg/L	60 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
Carbon tetrachloride	µg/L	5	<1U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
Chlorobenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroform	µg/L	7	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloromethane	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.14U	<0.14U	<0.5U
Cyclohexane	µg/L		<1U	<10U	-	<0.27U	<0.27U	<10U
Dibromochloromethane	µg/L	50 ^{#1}	<1U	<0.5U	<0.5U	<0.15U	<0.15U	<0.5U
Dichlorodifluoromethane	µg/L	5	<1UJ	<5U	<5U	<1U	<1U	<5U
Ethylbenzene	µg/L	5	1	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Isopropylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Methyl acetate	µg/L		-	<2U	-	<0.23U	<0.23U	<2U
Methyl cyclohexane	µg/L		<1U	<10U	-	<0.4U	<0.4U	<10U
Methyl tert butyl ether	µg/L	10 ^{#1}	16	14	17	14	5	22
Methylene chloride	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
o-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
p/m-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Styrene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Tetrachloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Toluene	µg/L	5	4.4	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Trichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Trichlorofluoromethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Vinyl chloride	µg/L	2	<1U	<1U	<1U	<0.07U	<0.07U	<1U

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

		Sample ID	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
		Monitoring Event	Baseline	2014 Annual	2015 Annual	2016 Annual	2017 Annual	2018 Annual
		Well ID	MW-7	MW-7	MW-7	MW-7	MW-7	MW-7
ChemName	Units	TOGS 1.1.1						
VOCs								
1,1,1-trichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1,2,2-tetrachloroethane	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L		-	<2.5U	-	<0.7U	<0.7U	<2.5U
1,1,2-trichloroethane	µg/L	1	<1U	<1.5U	<1.5U	<0.5U	<0.5U	<1.5U
1,1-dichloroethane	µg/L	5	<1U	0.75J	1.1J	<0.7U	<0.7U	<2.5U
1,1-dichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	0.22J	0.24J
1,2,3-trichlorobenzene	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2,4-trichlorobenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromo-3-chloropropane	µg/L	0.04	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromoethane	µg/L	5	<1U	<2U	<2U	<0.65U	<0.65U	<2U
1,2-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dichloroethane	µg/L	0.6	<0.5U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
1,2-dichloropropane	µg/L	1	<1U	<1U	<1U	<0.13U	<0.14U	<1U
1,3-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dioxane	µg/L		-	<250U	<250U	<41U	<61U	<250U
2-butanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1.9U	<1.9U	<5U
2-hexanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
4-methyl-2-pentanone	µg/L		<1U	<5U	<5U	<1U	<1U	<5U
Acetone	µg/L	50 ^{#1}	<10U	1.6J	<5U	<1.5U	<1.5U	<5U
Benzene	µg/L	1	0.2	2.3	4	0.66	0.54	0.36J
Bromochloromethane	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Bromodichloromethane	µg/L	5	<1U	<0.5U	<0.5U	<0.19U	<0.19U	<0.5U
Bromoform	µg/L	50 ^{#1}	<1UJ	<2U	<2U	<0.65U	<0.65U	<2U
Bromomethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Carbon disulfide	µg/L	60 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
Carbon tetrachloride	µg/L	5	<1U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
Chlorobenzene	µg/L	5	1	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroform	µg/L	7	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloromethane	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,2-dichloroethene	µg/L	5	1.2	16	6.1	17	52	76
cis-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.14U	<0.14U	<0.5U
Cyclohexane	µg/L		<1U	<10U	-	<0.27U	<0.27U	<10U
Dibromochloromethane	µg/L	50 ^{#1}	<1U	<0.5U	<0.5U	<0.15U	<0.15U	<0.5U
Dichlorodifluoromethane	µg/L	5	<1U	<5U	<5U	<1U	<1U	<5U
Ethylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Isopropylbenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Methyl acetate	µg/L		-	<2U	-	<0.23U	<0.23U	<2U
Methyl cyclohexane	µg/L		<1U	<10U	-	<0.4U	<0.4U	<10U
Methyl tert butyl ether	µg/L	10 ^{#1}	<0.5U	<2.5U	<2.5U	<0.7U	<0.7U	24
Methylene chloride	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
o-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
p/m-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Styrene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Tetrachloroethene	µg/L	5	<1U	2.2	0.52	1.8	11	5.2
Toluene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,2-dichloroethene	µg/L	5	<1U	<2.5U	0.78J	<0.7U	<0.7U	<2.5U
trans-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Trichloroethene	µg/L	5	1.4J	9.1	2.2	4.8	20	14
Trichlorofluoromethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Vinyl chloride	µg/L	2	2.7	5.5	5.6	12	8	5.6

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

#1 - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

ChemName	Units	Sample ID Monitoring Event Well ID	MW-8 Baseline MW-8	MW-8 2014 Annual MW-8	MW-8 2015 Annual MW-8	MW-8 2016 Annual MW-8	MW-8 2017 Annual MW-8	MW-8 5/30/2018 MW-8
ChemName	Units	TOGS 1.1.1						
VOCs								
1,1,1-trichloroethane	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1,2,2-tetrachloroethane	µg/L	5	<1UJ	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L		-	<2.5U	-	<0.7U	<0.7U	<2.5U
1,1,2-trichloroethane	µg/L	1	<1U	<1.5U	<1.5U	<0.5U	<0.5U	<1.5U
1,1-dichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,1-dichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U	<0.5U
1,2,3-trichlorobenzene	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2,4-trichlorobenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromo-3-chloropropane	µg/L	0.04	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dibromoethane	µg/L	5	<1U	<2U	<2U	<0.65U	<0.65U	<2U
1,2-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,2-dichloroethane	µg/L	0.6	<0.5U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
1,2-dichloropropane	µg/L	1	<1U	<1U	<1U	<0.13U	<0.14U	<1U
1,3-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
1,4-dioxane	µg/L		-	<250U	<250U	<41U	<61U	<250U
2-butanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1.9U	<1.9U	<5U
2-hexanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
4-methyl-2-pentanone	µg/L		<1U	<5U	<5U	<1U	<1U	<5U
Acetone	µg/L	50 ^{#1}	<10U	1.4J	<5U	<1.5U	<1.5U	<5U
Benzene	µg/L	1	<0.5U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Bromochloromethane	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Bromodichloromethane	µg/L	5	<1U	<0.5U	<0.5U	<0.19U	<0.19U	<0.5U
Bromoform	µg/L	50 ^{#1}	<1U	<2U	<2U	<0.65U	<0.65U	<2U
Bromomethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Carbon disulfide	µg/L	60 ^{#1}	<1U	<5U	<5U	<1U	<1U	<5U
Carbon tetrachloride	µg/L	5	<1U	<0.5U	<0.5U	<0.13U	<0.13U	<0.5U
Chlorobenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloroform	µg/L	7	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Chloromethane	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
cis-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.14U	<0.14U	<0.5U
Cyclohexane	µg/L		<1U	<10U	-	<0.27U	<0.27U	<10U
Dibromochloromethane	µg/L	50 ^{#1}	<1U	<0.5U	<0.5U	<0.15U	<0.15U	<0.5U
Dichlorodifluoromethane	µg/L	5	<1U	<5U	<5U	<1U	<1U	<5U
Ethylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Isopropylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Methyl acetate	µg/L		-	<2U	-	<0.23U	<0.23U	<2U
Methyl cyclohexane	µg/L		<1U	<10U	-	<0.4U	<0.4U	<10U
Methyl tert butyl ether	µg/L	10 ^{#1}	<0.5U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Methylene chloride	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
o-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
p/m-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Styrene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Tetrachloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Toluene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
trans-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.16U	<0.16U	<0.5U
Trichloroethene	µg/L	5	<1UJ	<0.5U	<0.5U	<0.18U	<0.18U	<0.5U
Trichlorofluoromethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U	<2.5U
Vinyl chloride	µg/L	2	<1U	<1U	<1U	<0.07U	<0.07U	<1U

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

^{#1} - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards



Table 3
Summary of Groundwater Sample Laboratory Analytical Results

202-218 Morgan Avenue BCP Site
Site #C224133

ChemName	Units	Sample ID Monitoring Event Well ID	Duplicate Baseline MW-2R	Duplicate 2014 Annual MW-5	Duplicate 2015 Annual MW-2R	Duplicate 2016 Annual MW-1	Duplicate 2017 Annual MW-1
ChemName	Units	TOGS 1.1.1					
VOCs							
1,1,1-trichloroethane	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U
1,1,2,2-tetrachloroethane	µg/L	5	<1UJ	<0.5U	<0.5U	<0.14U	<0.17U
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L		-	<2.5U	-	<0.7U	<0.7U
1,1,2-trichloroethane	µg/L	1	<1U	<1.5U	<1.5U	<0.5U	<0.5U
1,1-dichloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	0.7J
1,1-dichloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.14U	<0.17U
1,2,3-trichlorobenzene	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U
1,2,4-trichlorobenzene	µg/L	5	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U
1,2-dibromo-3-chloropropane	µg/L	0.04	<1UJ	<2.5U	<2.5U	<0.7U	<0.7U
1,2-dibromoethane	µg/L	5	<1U	<2U	<2U	<0.65U	<0.65U
1,2-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U
1,2-dichloroethane	µg/L	0.6	<0.5U	<0.5U	<0.5U	<0.13U	<0.13U
1,2-dichloropropane	µg/L	1	<1U	<1U	<1U	<0.13U	<0.14U
1,3-dichlorobenzene	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U
1,4-dichlorobenzene	µg/L		<1UJ	<2.5U	<2.5U	<0.7U	<0.7U
1,4-dioxane	µg/L		-	<250U	<250U	<41U	<61U
2-butanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1.9U	<1.9U
2-hexanone	µg/L	50 ^{#1}	<1U	<5U	<5U	<1U	<1U
4-methyl-2-pentanone	µg/L		<1U	<5U	<5U	<1U	<1U
Acetone	µg/L	50 ^{#1}	<10U	2.7J	<5U	<1.5U	<1.5U
Benzene	µg/L	1	<0.5U	<0.5U	<0.5U	<0.16U	<0.16U
Bromochloromethane	µg/L		-	<2.5U	<2.5U	<0.7U	<0.7U
Bromodichloromethane	µg/L	5	<1U	<0.5U	<0.5U	<0.19U	<0.19U
Bromoform	µg/L	50 ^{#1}	<1U	<2U	<2U	<0.65U	<0.65U
Bromomethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U
Carbon disulfide	µg/L	60 ^{#1}	<1U	<5U	<5U	<1U	<1U
Carbon tetrachloride	µg/L	5	<1U	<0.5U	<0.5U	<0.13U	<0.13U
Chlorobenzene	µg/L	5	<1U	<2.5U	<2.5U	0.86J	<0.7U
Chloroethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U
Chloroform	µg/L	7	<1U	<2.5U	<2.5U	<0.7U	<0.7U
Chloromethane	µg/L		<1U	<2.5U	<2.5U	<0.7U	<0.7U
cis-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	1.7J	66
cis-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.14U	<0.14U
Cyclohexane	µg/L		<1U	<10U	-	<0.27U	<0.27U
Dibromochloromethane	µg/L	50 ^{#1}	<1U	<0.5U	<0.5U	<0.15U	<0.15U
Dichlorodifluoromethane	µg/L	5	<1U	<5U	<5U	<1U	<1U
Ethylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U
Isopropylbenzene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U
Methyl acetate	µg/L		-	<2U	-	<0.23U	<0.23U
Methyl cyclohexane	µg/L		<1U	<10U	-	<0.4U	<0.4U
Methyl tert butyl ether	µg/L	10 ^{#1}	<0.5U	10	0.99J	5.5	4.8
Methylene chloride	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U
o-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U
p/m-xylene	µg/L	5	-	<2.5U	<2.5U	<0.7U	<0.7U
Styrene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U
Tetrachloroethene	µg/L	5	<1U	<0.5U	<0.5U	<0.18U	<0.18U
Toluene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U
trans-1,2-dichloroethene	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U
trans-1,3-dichloropropene	µg/L	0.4	<1U	<0.5U	<0.5U	<0.16U	<0.16U
Trichloroethene	µg/L	5	<1UJ	<0.5U	<0.5U	<0.18U	<0.18U
Trichlorofluoromethane	µg/L	5	<1U	<2.5U	<2.5U	<0.7U	<0.7U
Vinyl chloride	µg/L	2	6.2	<1U	3.5	6.8	100

TOGS 1.1.1 - Class GA Groundwater Quality Standard or Guidance Value from New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (June 1998).

^{#1} - Guidance value

Baseline samples were taken by others on 11-20-2009 (pre-remediation for PCBs), 7-11-2011 (pre-remediation for alkalinity, COD, BOD, TOC, and TOX), and 6-11-2013 and 6-12-2013 (post-remediation for TCL VOCs, TAL metals - total, and TAL metals - dissolved)

U - Analyzed for but Not Detected above the identified laboratory reporting limit

J - Indicates an estimated value

(-) - No sample analyzed for specific analyte

Bold and highlighted results indicate an exceedance of standards

Method_Name = 'VOCs'

Appendices

Appendix A

Annual Inspection Form

SITE-WIDE INSPECTION FORM

FRITO-LAY 202-218 MORGAN AVENUE
KINGS COUNTY
BROOKLYN, NEW YORK
NYSDEC SITE NUMBER C224133

NAME OF INSPECTOR: Damian Vanetti

COMPANY OF INSPECTOR: GHD Consulting Services, Inc.

DATE OF INSPECTION: 11-15-18

CURRENT USE OF THE SITE: Vehicle parking

HAS A CHANGE OF LAND-USE OCCURRED SINCE THE LAST INSPECTION?

 YES X NO

IF YES, EXPLAIN HOW THE SITE HAS CHANGED: _____

IS THERE EVIDENCE OF LAND-USE OTHER THAN FOR INDUSTRIAL SINCE THE LAST INSPECTION?

 YES X NO

IF YES, EXPLAIN THE NON-INDUSTRIAL LAND USE: _____

HAVE ANY STRUCTURES BEEN CONSTRUCTED ON THE SITE SINCE THE LAST INSPECTION? YES X NO

IF YES, EXPLAIN HOW THE SITE HAS CHANGED: _____

GENERAL DESCRIPTION OF THE COVER: Site is covered with asphalt paving with vegetated soil cover at perimeter surrounded by retaining wall / bulkhead. Chain link fence exist at outer perimeter.

HAS THE COVER BEEN COMPROMISED? YES X NO

IF YES, EXPLAIN HOW THE COVER HAS CHANGED: _____

SITE-WIDE INSPECTION FORM

FRITO-LAY 202-218 MORGAN AVENUE
KINGS COUNTY
BROOKLYN, NEW YORK
NYSDEC SITE NUMBER C224133

HAVE COVER CONDITIONS CHANGED SINCE THE LAST INSPECTION?

____ YES ☒ NO

IF YES, EXPLAIN HOW THE SITE COVER CONDITIONS CHANGED: _____

IS ANY MAINTENANCE OF THE COVER REQUIRED?

____ YES ☒ NO

IF YES, EXPLAIN WHAT MAINTAINENCE IS REQUIRED:

General routine maintenance of the asphalt
pavement to seal surface cracks

ARE SIGNIFICANT EROSION RILLS OR CRACKING PRESENT?

____ YES ☒ NO

IF YES, EXPLAIN WHERE EROSION RILLS OR CRACKING ARE PRESENT: _____

IS PONDING PRESENT?

____ YES ☒ NO

IF YES, EXPLAIN WHERE PONDING IS PRESENT AND THE ASSOCIATED DEPTH:

IS ANY SOIL WASTE MATERIAL EXPOSED?

____ YES ☒ NO

IF YES, EXPLAIN WHERE SOIL WASTE MATERIAL ARE EXPOSED:

SITE-WIDE INSPECTION FORM

FRITO-LAY 202-218 MORGAN AVENUE
KINGS COUNTY
BROOKLYN, NEW YORK
NYSDEC SITE NUMBER C224133

IS THERE A VISABLE CHANGE IN THE DESIGNATED DRAINAGE PATTERN?

____ YES ☒ NO

IF YES, EXPLAIN WHERE THE VISABLE CHANGE IN THE DESIGNATED DRAINAGE PATTERN ARE LOCATED: _____

IS SETTLEMENT OR SUBSIDNCE VISIBLE?

____ YES ☒ NO

IF YES, EXPLAIN WHERE SETTLEMENT OR SUBSIDNCE VISIBLE IS LOCATED: _____

ARE SIGNIFICANT EROSION RILLS OR CRACKING PRESENT?

____ YES ☒ NO

IF YES, EXPLAIN WHERE EROSION RILLS OR CRACKING ARE PRESENT: _____

ARE ALL GROUNDWATER MONITORING WELLS MAINTAINED PROPERLY
AND IN GOOD PHYSICAL CONDITION?

☒ YES ____ NO

IF NO, EXPLAIN HOW THE GROUNDWATER MONITORING WELLS HAVE BEEN
COMPROMISED:

____ MW - 2R remove/clear vegetation around well pad
for clear access

SITE-WIDE INSPECTION FORM

FRITO-LAY 202-218 MORGAN AVENUE
KINGS COUNTY
BROOKLYN, NEW YORK
NYSDEC SITE NUMBER C224133

IS THERE ANY EVIDENCE THAT GROUNDWATER IS BEING USED FOR ANY PURPOSE?

____ YES X NO

IF YES, EXPLAIN HOW GROUNDWATER IS BEING USED:

ADDITIONAL OBSERVATIONS, CONCLUSIONS, OR RECOMMENDATIONS:

Woody growth should be cleared from perimeter stone cover/
retaining wall area
General debris (wind blown) along fence line should
be cleaned up as BMP.

ANY CHANGES TO THE SITE OR REQUIRED MAINTENANCE SHOULD BE MARKED
IN THE CORRESPONDING LOCATIONS ON AN ATTACHED MAP

Appendix B

Approval Notification for EQUIS Database Submittal

Ian McNamara

From: Dyson Sprouse
Sent: Monday, August 13, 2018 9:30 AM
To: Ian McNamara
Subject: FW: 202-218 Morgan Avenue BCP Site (Site #C224133) - Annual 2018 Groundwater Monitoring EQuIS Submittal
Attachments: image001.png

OperatingCentre: 86
JobNo: 16480
CompleteRepository: 8616480
RepoEmail: 8616480@ghd.com
Description: Frito-Lay Brooklyn BCP
RepoType: Job

From: dec.sm.NYENVDATA [NYENVDATA@dec.ny.gov]
Sent: Friday, August 3, 2018 8:54 AM
To: Dyson Sprouse
Cc: Post, Charles H (DEC)
Subject: RE: 202-218 Morgan Avenue BCP Site (Site #C224133) - Annual 2018 Groundwater Monitoring EQuIS Submittal

Dyson,

EDDs 20180726 1536.C224133.NYSDEC and 20180726 1557.C224133.NYSDEC were successfully uploaded and the data is available for use within the NYSDEC system.

Thank you,
Alison
NYSDEC EIMS Team
[New York State Dept of Environmental Conservation image]

From: Dyson.Sprouse@ghd.com [mailto:Dyson.Sprouse@ghd.com]
Sent: Thursday, July 26, 2018 4:04 PM
To: dec.sm.NYENVDATA <NYENVDATA@dec.ny.gov>
Cc: Post, Charles H (DEC) <charles.post@dec.ny.gov>
Subject: 202-218 Morgan Avenue BCP Site (Site #C224133) - Annual 2018 Groundwater Monitoring EQuIS Submittal

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hello,
Attached are 2 EDDs for the 2018 Annual sampling event at the above referenced site. One contains field parameters and water levels and one contains analytical results.
Please let me know if edits are needed for a successful upload.
Thank you,

Dyson Sprouse
Engineer – Environment

GHD
T: 1 315 679 5763 | M: 1 607 423 7156 | V: 865763 | E: dyson.sprouse@ghd.com
One Remington Park Drive Cazenovia New York 13035 USA | www.ghd.com
WATER<<http://www.ghd.com/sectors/water/>> | ENERGY & RESOURCES<<http://www.ghd.com/global/sectors/energy--resources/>> | ENVIRONMENT<<http://www.ghd.com/sectors/environment/>> | PROPERTY & BUILDINGS<<http://www.ghd.com/global/sectors/property--buildings/>> | TRANSPORTATION<<http://www.ghd.com/global/sectors/transportation/>>

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about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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