Periodic Review Report

3021 Orchard Park Road Site

BCP Site No. C915289
3021 Orchard Park Road
Buffalo, New York

July 2017 0304-017-001

Prepared For:

30212 Orchard Park Road, LLC &
CCS Oncology, P.C.

Prepared By:

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

2558 Hamburg Turnpike, Suite 300, Buffalo, NY | phone: (716) 856-0599 | fax: (716) 856-0583

PERIODIC REVIEW REPORT

3021 ORCHARD PARK ROAD SITE
(BCP SITE NO. C915289)

BUFFALO, NEW YORK

July 2017 B0304-017-001

Prepared for:

3021-3041 Orchard Park Road, LLC &
CCS Oncology, P.C.

Prepared for:

Prepared By:

Benchmark Environmental Engineering & Science, PLLC
2558 Hamburg Turnpike, Suite 300
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In Association With:

TurnKey Environmental Restoration, LLC
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PERIODIC REVIEW REPORT

3021 Orchard Park Road Site (C915289)

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PERIODIC REVIEW REPORT

3021 Orchard Park Road Site (C915289)

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APPENDICIES

1.0 INTRODUCTION

Benchmark Environmental Engineering and Science, PLLC in association with TurnKey Environmental Restoration, LLC (Benchmark TurnKey) has prepared this Periodic Review Report (PRR) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C915289, located at 3021-3041 Orchard Park Road, in the Town of Orchard Park, Erie County, New York (see Figure 1).

This PRR has been prepared in accordance with the NYSDEC DER-10 *Technical Guidance for Site Investigation and Remediation* (May 2010; Ref. 1) and the NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form has been prepared for the Site. This PRR and the associated IC/EC Form (see Appendix A) have been completed for the post-remedial period from December 15, 2015 to March 16, 2017.

1.1 Site Background

3021-3041 Orchard Park Road, LLC and CCS Oncology, P.C. entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in October 2014, to investigate and remediate an approximate 4.19 acre portion of a larger 5.06-acre parcel located in the Town of Orchard Park, County of Erie, New York. BCP site activities were performed in accordance with Brownfield Cleanup Agreement (BCA) Index#C915289-10-14, Site #C915289, which was executed on October 30, 2014. The BCP property, which is inclusive of the asphalted parking/driveway areas and on-site building and excludes the vegetated (grassed) areas along the outer perimeter of the Site, was remediated to restricted residential use is currently being used as a consolidated Western New York Southdown's multi-disciplinary world class cancer center including: radiation oncology, medical oncology, breast surgeons, gynecologic surgeons, vascular surgeons, primary physicians, and diagnostic imaging.

The site is located in the County of Erie, New York and is identified as Section 152.12 Block 02 and Lot 1.1 on the Orchard Park Tax Map #152.12 per Erie County Tax Map records. The BCP Site is bounded by Michael Road to the north, commercial property to the south (Rite Aid Pharmacy), commercial property (Walgreens Pharmacy) to the east, and Orchard Park Road to the west (see Figures 1 and 2). Historically, the Site was improved as a

commercial multi-unit shopping plaza and associated parking. The existing building formerly contained seven units identified by address as follows:

- 3025 – Former Tops Grocery Store and Antique Mall
- 3027 – Existing Family Dollar
- 3031 – Former CVS Pharmacy
- 3035 – Former Hair Salon and Dry Cleaner
- 3037 – Former Paint Shop
- 3039 – Former Dry Cleaner/Insty-Prints Printing Center
- 3041 – Former Credit Union

1.2 Remedial History

The 3021 Orchard Park Road Site is located in a moderately developed commercial area of Orchard Park, New York. The Site is improved with a single story multi-unit commercial building and large parking lot. According to the Phase I Environmental Site Assessment (ESA) (Ref. 2), the commercial plaza historically housed a dry cleaning tenant in the 3035 and 3039 Orchard Park Road tenant units between 1979 and 2008.

Previous investigations completed on the Site included a Limited and Focused Subsurface Soil and Groundwater Investigation (Ref. 3) and a Supplemental Phase II Environmental Investigation (Ref. 4). The LCS investigation was based on information reported in the Phase I ESA of a recognized environmental condition (REC) that the subject property was historically used as a dry cleaner. The LCS investigation included the completion of a subsurface soil and groundwater investigation in accessible exterior areas of the Site to assess potential environmental impact related to the past operation of a dry cleaning facility. The investigation identified photoionization detector (PID) measurements above background concentrations (e.g., 0.0 parts per million, ppm) at 53 of the 63 soil samples collected, solvent-type odors, and chlorinated volatile organic compounds (cVOCs), commonly associated with dry cleaning facilities, in two temporary monitoring wells in exceedance of NYSDEC Class GA Groundwater Quality Standards (GWQSs). No analytes were detected in soil at concentrations in exceedance of NYSDEC Part 375 Soil Cleanup Objectives.

Based on the findings of the LCS report, further investigation was recommended to delineate the extent of cVOCs found at the site. The additional investigation performed by

TurnKey included six interior soil borings, three soil vapor samples (subslab, indoor, and outdoor), and five exterior borings/temporary monitoring wells. Results from this investigation generally indicated the following conditions: tetrachloroethene (PCE) was detected at a concentration above the Part 375 Protection of Groundwater Soil Cleanup Objective (SCO) at two boring locations; PCE was categorized as "IR" (identify sources and reduce exposures) in soil vapor; and, benzene, cis-1,2-dichloroethene (cis-1,2-DCE), PCE, trichloroethene (TCE), and vinyl chloride (VC) were detected above the GWQSs in one temporary well, while cis-1,2-DCE and VC were detected at concentrations above the GWQSs at another temporary well.

A BCP Remedial Investigation (RI) was performed from November 2014 to January 2015 to characterize the nature and extent of contamination at the site. The results of the RI are described in detail in the Remedial Investigation/Interim Remedial Measures/Alternatives Analysis (RI/IRM/AA) Report (Ref. 5). In general, the RI determined that cVOCs were the contaminants of concern (COCs) in Site soil and/or groundwater.

The RI/IRM/AA Report recommended remediation of potentially cVOC-impacted soil/fill from the vault area, Porte Cochere footers, and storm sewer spoils, as well as removal of sediment from and replacement of an on-site catch basin followed by direct injection of groundwater treatment amendments in the vault area and maintenance and repair, as necessary, of the existing asphalt covered driveways/parking lots and concrete pads as the final remedial measure under a Track 4 Cleanup approach. Additional requirements included development and adherence to a Site Management Plan (SMP) (Ref. 6) and filing of an Environmental Easement to restrict use of the property to restricted residential, commercial, and industrial applications and to place other limitations on post-redevelopment activities.

1.3 Compliance

At the time of the Site inspection, the Site was fully compliant with the NYSDEC-approved SMP dated September 2014.

2.0 SITE OVERVIEW

An overview of the remediation and redevelopment activities undertaken on the Site covered by this PRR are presented below. The remediated property is subject to a comprehensive, site-wide SMP which identifies requirements for monitoring and maintenance of engineering and institutional controls and procedures for post-remedial excavation and related activities.

The 3021 Orchard Park Road Site was redeveloped under the BCP as a consolidated Western New York Southdown's multi-disciplinary world class cancer center. The following IRM activities were performed to remediate the Site:

- Excavation and off-site disposal of 1,246.29 tons of potentially cVOC-impacted soil/fill from the vault area of the Site.
- Excavation and off-site disposal of 420.60 tons of non-impacted soil/fill generated from building interior utility trenching, Porte Cochere footer excavations, new roof storm drain installation, and excavation of nine topsoil/grass covered islands throughout the parking lot area.
- Removal of sediment from, followed by decontamination and disposal of, an on-site catch basin. A new concrete catch basin was installed.
- Targeted in-situ groundwater treatment in the vault area of the Site included 23 injection points from approximately 4 to 14 feet below ground surface.
- Non-PCB containing (less than 3 ppm) transformer removal and disposal.
- Asbestos abatement of floor tile, floor mastic, and carpet mastic.

The remedial program was successful in achieving the remedial objectives for the Site. An Environmental Easement restricting end use of the Site and enforcing adherence to the SMP was filed and approved in November 2015. The Final Engineering Report (FER) (Ref. 7) was approved in December 2015. Concurrently, a Certificate of Completion (COC) was issued for the Site by the NYSDEC in December 2015.

3.0 REMEDY PERFORMANCE

A post-remedial site inspection involving a walk-over of the Site covered by this PRR was performed on June 5, 2017 to visually observe and document the use of the Site for restricted residential, commercial, and/or industrial use, confirm absence of site groundwater use, inspect the cover system integrity, and verify conformance with other requirements under the SMP. The site inspection completed during the current reporting period indicates that the controls are in-place and functioning as intended in accordance with the SMP.

The completed IC/EC Certification forms and site photographs are included in Appendices A and B, respectively.

4.0 SITE MANAGEMENT PLAN

A site-wide SMP was prepared for the Site and approved by the Department in November 2015. Key components of the SMP are described below.

4.1 Institutional and Engineering Control (IC/EC) Plan

Since remaining contaminated soil and groundwater exists beneath the site, Institutional Controls and Engineering Controls (IC/ECs) are required to protect human health and the environment. The Engineering and Institutional Control Plan describes the procedures for the implementation and management of all IC/ECs at the site. At the time of the site inspection, the Site covered by this PRR was fully compliant with all engineering and institutional control requirements.

4.1.1 Institutional Controls (ICs)

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

- The property may only be used for restricted-residential, commercial, and industrial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted 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;
- Vegetable gardens and farming on the property are prohibited;
- 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 Controlled 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 Controlled Property at 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.

4.1.2 Engineering Controls (ECs)

Engineering controls at the Site include:

- Cover System – Exposure to remaining contamination in soil/fill at the site is prevented by a final cover system placed over the site. The cover system is comprised of a minimum of 24 inches of clean soil for interior green space islands, asphalt pavement, and concrete sidewalks and building slabs/foundations. The cover system must be maintained in compliance with the SMP.
- Vapor Barrier - A poly vapor barrier must be installed (if new construction) and remain in-place beneath existing building concrete floor slabs (i.e., vault room).

4.2 Post-Remedial Groundwater Monitoring

As a requirement of the SMP, post-remedial groundwater sampling of monitoring wells MW-4A and MW-6 is to be performed biannually (twice per year) for the first two years then annually thereafter (until such time as the NYSDEC agrees that monitoring can be terminated) to assess the performance of the IRM remedy. Modification to the frequency or sampling requirements will require approval from the NYSDEC. In accordance with the SMP, groundwater samples from each well are to be analyzed for Target Compound List (TCL) VOCs (Method 8260) and field parameters (i.e., pH, conductivity, temperature, turbidity, dissolved oxygen, and oxidation-reduction potential). Groundwater from well MW-6 are also to be analyzed for attenuation parameters to evaluate effectiveness of the in-situ treatment and include dissolved iron, dissolved manganese, sulfate, nitrate-nitrite, and dissolved gases methane, ethane, and ethene.

On June 6, 2017, Benchmark TurnKey personnel conducted the first semi-annual post-remedial groundwater monitoring event at the Site. In accordance with the SMP, wells MW-

4A and MW-6 were sampled with SpeedBag HydraSleeves. Appendix C includes the first semi-annual Post-Remedial Groundwater Monitoring Report for the June 2017 event. Current groundwater monitoring results indicate nearly 100% removal of cVOC (trichloroethene and tetrachloroethene) and daughter compound-impacts (i.e., cis-1,2-dichloroethene, 1,1-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride) compared to pre-IRM concentrations. The next semi-annual groundwater event is tentatively scheduled for October 2017.

4.3 Excavation Work Plan

An Excavation Work Plan (EWP) was included in the NYSDEC-approved SMP for the Site. The Excavation Work Plan provides guidelines for the management of soil and fill material during any future intrusive actives. Any intrusive work that will penetrate the cover or cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system and/or building foundation, must be performed in compliance with the EWP.

4.3.1 Site Improvement Activities

During the current reporting period (December 15, 2015 to March 16, 2017), certain site improvements occurred that involved management of on-site soil/fill material beneath the foundation of the existing building. Improvement activities included cutting and removal of existing concrete flooring and subgravel/subsoil to facilitate the installation of underground sanitary plumbing within the positron emission tomography–computed tomography (better known as PET/CT), CCS Primary Care, and Quest Diagnostic planned expansion areas of the existing building (see Figure 2).

Intrusive activities were observed either by the owner or by Benchmark TurnKey personnel to verify conformance with the SMP. The concrete flooring was saw cut into approximately 24-inch wide trenches to allow removal of approximately 12 to 24 inches of subgravel and/or subsoil (depending on plumbing specifications and location). Excavation spoils were temporarily stockpiled on polyethylene tarp in the southeast corner of the Site and covered with additional polyethylene tarp to prevent erosion runoff. PID field screening results of removed spoils were never above background (i.e., 0.0 ppm). Approximately 24.19

tons of generated spoils were transported via manifest to Modern Landfill, a NYSDEC-permitted solid waste facility located in Model City, New York in accordance with the SMP for disposal. Benchmark TurnKey's origin certification as well as Modern's scale receipts and approval are provided in Appendix D. New construction elements described above are presented on Figure 2.

4.3.2 Imported Materials

The excavations performed during Site improvement activities were backfilled with washed No. 1/1A stone and completed with concrete. This is the same stone from the same source (Buffalo Crushed Stone) used during pre-COC redevelopment activities. At that time, NYSDEC was provided specifications demonstrating the material was exempt from analytical testing due to minimal fines content in accordance with DER-10 Section 5.4(e)(5)(i).

4.4 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines requirements for certifying and attesting that the institutional controls and engineering controls employed on the Site are unchanged from the original design and/or previous certification. The Annual Certification includes a Site Inspection and completion of the NYSDEC-provided IC/EC Certification Form. The Site inspection is intended to verify that the IC/ECs:

- Are in place and effective.
- Are performing as designed.
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site to evaluate continued maintenance of such controls.

Inspection of the Site was conducted by Thomas Forbes, P.E. of Benchmark on June 5, 2017. Mr. Forbes is a licensed and registered NY State Professional Engineer and meets the requirements of a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, the Site was being used as cancer treatment and medical facility (CCS Oncology, CCS Primary Care, Vascular Associates of WNY, and Quest Diagnostics) and Family Dollar, with surface parking, concrete sidewalks, and interior landscaped island areas. No observable indication of intrusive activities was noted during the Site inspection beyond those described in Section 4.3. The existing medical and shopping facilities utilize the local municipal water supply, and no observable use of groundwater was noted during the Site inspection.

The completed Site Management Periodic Review Report Notice – Institutional and Engineering Controls Certification Form is included in Appendix A. A photographic log of the Site inspections during intrusive work as well as the June 2017 Site inspection are included in Appendix B.

4.5 Operation, Monitoring and Maintenance Plan

The remedy for the Site does not rely on any mechanical systems such as sub-slab depressurization or soil vapor extraction, to protect public health and the environment. Therefore, an Operation and Maintenance Plan is not required.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions for this reporting period and recommendations for the next reporting period are as follows:

- At the time of the Site inspection, the Site was in compliance with the SMP. Portions of the Site underwent minor intrusive activities with NYSDEC knowledge and observation.
- Groundwater monitoring results indicate nearly 100% removal of previously identified cVOC impacts to groundwater. Additional monitoring events are warranted to demonstrate this dramatic improvement to groundwater quality is permanent.
- No modifications are recommended at this time.

6.0 DECLARATION/LIMITATION

Benchmark Environmental Engineering and Science, PLLC personnel conducted the annual site inspection for BCP Site No. C915289, located in Orchard Park, New York, according to generally accepted practices. This report complied with the scope of work provided to 3021-3041 Orchard Park Road, LLC (and CCS Oncology, P.C.) by Benchmark Environmental Engineering & Science, PLLC and TurnKey Environmental Restoration, LLC.

This report has been prepared for the exclusive use of 3021-3041 Orchard Park Road, LLC (and CCS Oncology, P.C.). The contents of this report are limited to information available at the time of the site inspection. The findings herein may be relied upon only at the discretion of 3021-3041 Orchard Park Road, LLC (and CCS Oncology, P.C.). Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission from Benchmark Environmental Engineering and Science, PLLC and TurnKey Environmental Restoration, LLC.

7.0 REFERENCES

1. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation.* May 2010.

2. LCS Inc. *ASTM E1527-05 All Appropriate Inquiries Phase I Environmental Site Assessment Report for the Property Identified as: Commercial Plaza, 3021-3041 Orchard Park Road, Orchard Park, New York*. October 10, 2013.

3. LCS Inc. *Limited and Focused Subsurface Soil and Groundwater Investigation Report for the Property Identified as: Commercial Plaza, 3021-3041 Orchard Park Road, Orchard Park, New York*. May 14, 2014.

4. TurnKey Environmental Restoration, LLC. *Supplemental Phase II Environmental Investigation Report, 3021-3041 Orchard Park Road, Orchard Park, New York*. June 2014.

5. Benchmark Environmental Engineering & Science, PLLC and TurnKey Environmental Restoration, LLC. *Remedial Investigation/Alternatives Analysis Report, 3021 Orchard Park Road Site, Orchard Park, New York*. April 2015.

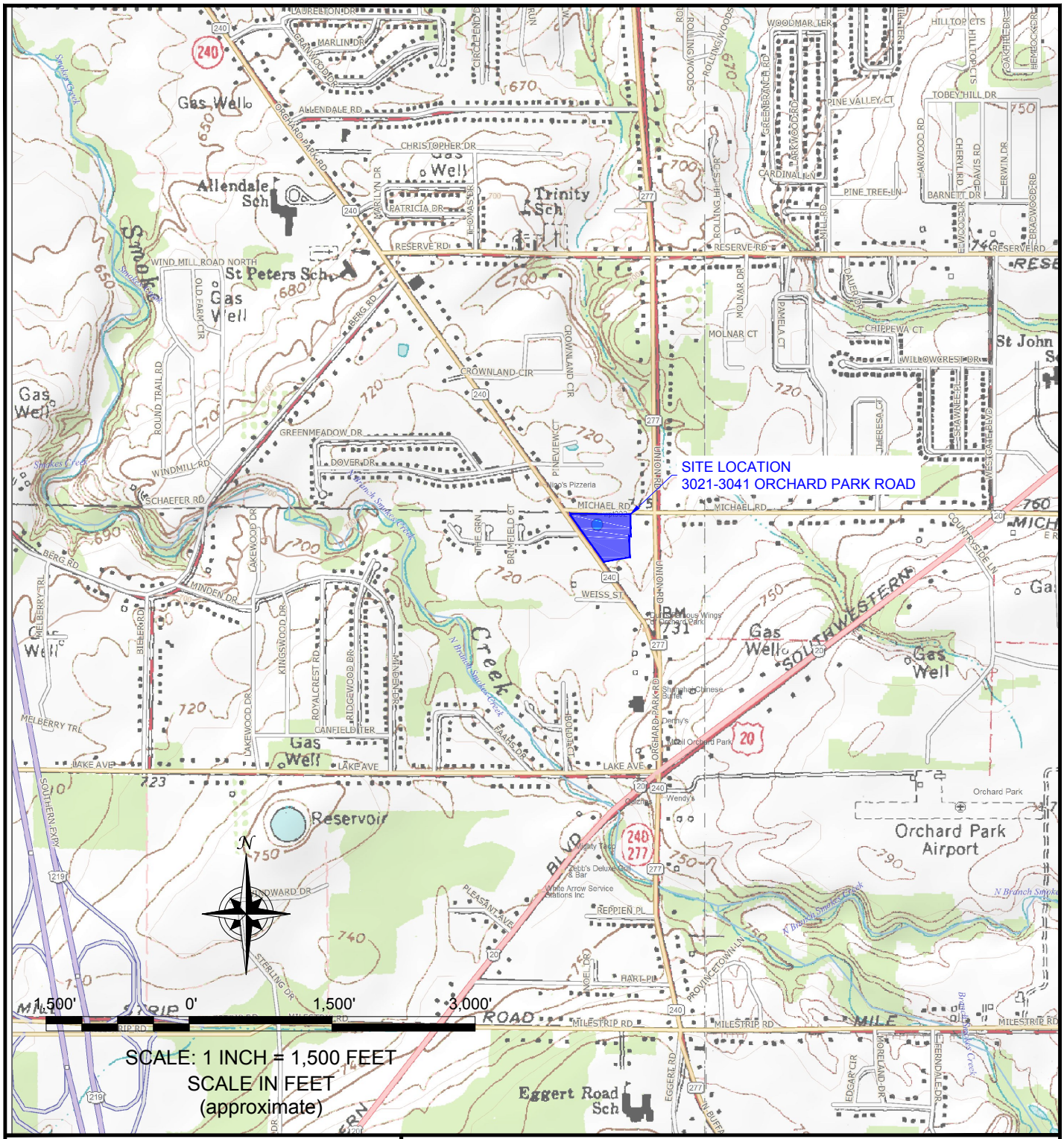
6. Benchmark Environmental Engineering & Science, PLLC and TurnKey Environmental Restoration, LLC. *Site Management Plan, 3021 Orchard Park Road Site, Orchard Park, NY (NYSDEC BCP Site #C915289)*. November 2015.

7. Benchmark Environmental Engineering & Science, PLLC and TurnKey Environmental Restoration, LLC. *Final Engineering Report, 3021 Orchard Park Road Site, Orchard Park, NY (NYSDEC BCP Site #C915268)*. November 2014.

FIGURES

F:\CAD\TurnKey\3021-3041 Orchard Park Rd LLC (C915289)\16 - PRR\2017\Figure 1; Site Location and Vicinity.dwg

FIGURE 1



BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0304-017-001

DATE: JULY 2017

DRAFTED BY: BCH

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

3021 ORCHARD PARK ROAD SITE
ORCHARD PARK, NEW YORK

PREPARED FOR

3021-3041 ORCHARD PARK ROAD, LLC

DISCLAIMER: ***PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC*** *IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.*

PAPPAS'S RESTAURANT
PLAZA (COMMERCIAL)
BOWLING ALLEY (VACANT LAND AT BACK)
PLAZA (COMMERCIAL)
MICHAEL ROAD
WALGREENS PHARMACY/STORE
KEY BANK
RITE AID PHARMACY/STORE
DENTAL OFFICES
EAGLEBROOK DRIVE
ORCHARD PARK ROAD
GRASS COVERED EASEMENT
ASPHALT PARKING
MW-5A
EXISTING FAMILY DOLLAR
FUTURE TENANT
PET/CT AREA
COMPREHENSIVE CANCER SERVICES ONCOLOGY, P.C.
PORTE COCHERE
MW-4A
VASCULAR SURGEON GROUP
VAULT
CCS PRIMARY CARE AREA
MW-6
QUEST DIAGNOSTICS AREA
MW-1B
MW-1A
MW-2A
MW-2B
MW-3A
MW-3B
LEGEND:
PROPERTY BOUNDARY
BCP BOUNDARY
PARCEL BOUNDARY
EXISTING BUILDING
INTRUSIVE ACTIVITY AREA (SEPTEMBER 2016)
MW-3B DECOMMISSIONED MONITORING WELL
MW-6 EXISTING MONITORING WELL
N
30' 0' 30' 60'
SCALE: 1 INCH = 30 FEET
SCALE IN FEET
(approximate)

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218 (716) 856-0599

JOB NO.: 0304-017-001

REVISIONS

NO.	BY	DATE	REMARKS

SEAL

DRAWN BY: BCH

DATE: JULY 2017

CHECKED BY:

APPROVED BY:

SITE PLAN

PERIODIC REVIEW REPORT

3021 ORCHARD PARK ROAD

ORCHARD PARK, NEW YORK

PREPARED FOR

3021-3041 ORCHARD PARK ROAD, LLC & CCS ONCOLOGY, P.C.

FIGURE 2

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM

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

Site Details **Box 1**

Site No. **C915289**

Site Name 3021 Orchard Park Road Site

Site Address: 3021 Orchard Park Road Zip Code: 14127
City/Town: Orchard Park
County: Erie
Site Acreage: 4.2

Reporting Period: December 15, 2015 to March 16, 2017

	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? Restricted-Residential, Commercial, and 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.

	YES	NO
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. C915289

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
portion of 152.12-2-1.1	3021-3041 Orchard Park Road LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

1. Prohibition of use of groundwater.
2. Land use restriction for Restricted Residential, Commercial or Industrial use.
3. Soil Management or Excavation Work Plan for any future intrusive work.
4. Soil vapor intrusion evaluation of any new buildings constructed on site.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
portion of 152.12-2-1.1	Cover System

1. Monitoring and maintenance of the cover system.
2. Bi-annual and annual groundwater monitoring.

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 compete.

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

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 Paul Hogan (print name) at 3021 Orchard Park Rd, Orchard Park, NY 14127 (print business address)

am certifying as Owner (Owner or Remedial Party)

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

Paul F Hogan
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

7/10/17
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 Thomas H. Forbes P.E. at Benchmark Environmental Engineering 2558 Hamburg Turnpike, Buffalo, NY 14218

print name | print business address

am certifying as a Professional Engineer for the Owner

(Owner or Remedial Party)

STATE OF NEW YORK THOMAS H. FORBES No. 70650-1 PROFESSIONAL ENGINEER

7-6-17

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date

APPENDIX B

PHOTOGRAPHIC LOG

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
3021 OP Road, LLC	3021-3041 Orchard Park Road, Orchard Park, NY	B304-017-001

Photo No.	Date
1	02/09/16

Direction Photo Taken:
southwest

Description:
Utility trench subsoil excavation using mini-excavator and manual labor to remove and stage subsoils.

Photo No.	Date
2	02/09/16

Direction Photo Taken:
west

Description:
Stage pile of excavated subsoils.

Prepared By: *BCH*

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
3021 OP Road, LLC	3021-3041 Orchard Park Road, Orchard Park, NY	B304-017-001

Photo No.	Date
3	02/09/16

Direction Photo Taken:
south

Description:
Completed utility excavation being backfilled with clean 1/1A stone.

Photo No.	Date
4	02/09/16

Direction Photo Taken:
north

Description:
Loading out of utility trench subsoils for trasport and disposal at Modern Landfill.

Prepared By: BCH

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
3021 OP Road, LLC	3021-3041 Orchard Park Road, Orchard Park, NY	B304-017-001

Photo No.	Date
5	10/05/16

Direction Photo Taken:
west

Description:
Excavated utility trench with PVC pipe placement shown.

Photo No.	Date
6	10/05/16

Direction Photo Taken:
NA

Description:
Backfilled utility trench with clean 1/1A stone.

Prepared By: *BCH*

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
3021 OP Road, LLC	3021-3041 Orchard Park Road, Orchard Park, NY	B304-017-001

Photo No.	Date
7	10/05/16

Direction Photo Taken:
north

Description:
Stockpile of utility trench spoils placed on top of and covered with polyethylene tarp.

Photo No.	Date
8	10/05/16

Direction Photo Taken:
northeast

Description:
Area of utility trench spoils pile following cleanup and removal from Site.

Prepared By: BCH

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
3021 OP Road, LLC	3021-3041 Orchard Park Road, Orchard Park, NY	B304-017-001

Photo No.	Date
9	06/05/17

Direction Photo Taken:
southeast

Description:
Front of on-site building showing integrity of asphalt parking area.

Photo No.	Date
10	06/05/17

Direction Photo Taken:
north

Description:
Front of on-site building showing integrity of asphalt drive and parking area.

Prepared By: BCH

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
3021 OP Road, LLC	3021-3041 Orchard Park Road, Orchard Park, NY	B304-017-001

Photo No.	Date
11	06/05/17

Direction Photo Taken:
north

Description:
Southeast portion of building showing integrity of existing asphalt drive and parking areas near Vault (at right).

Photo No.	Date
12	06/05/17

Direction Photo Taken:
west

Description:
Northwest corner of building showing integrity of existing asphalt drive and parking areas.

Prepared By: *BCH*

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
3021 OP Road, LLC	3021-3041 Orchard Park Road, Orchard Park, NY	B304-017-001

Photo No.	Date
13	06/05/17

Direction Photo Taken:
south

Description:
Main parking area of Site showing grass islands (at right, background).

Photo No.	Date
14	06/05/17

Direction Photo Taken:
southwest

Description:
Main parking area of Site showing grass islands (at right).

Prepared By: *BCH*

APPENDIX C

SEMI-ANNUAL GROUNDWATER MONITORING REPORT

July 12, 2017

Mr. David Szymanski
New York State Dept. of Environmental Conservation
Division of Solid and Hazardous Materials, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

Re: 3021 Orchard Park Road Site (C915289)
2017 First Semi-Annual Post-Remedial Groundwater Monitoring Report

Dear Mr. Szymanski:

On behalf of our clients, 3021-3041 Orchard Park Road, LLC and CCS Oncology, P.C., Benchmark Environmental Engineering and Science, PLLC, and TurnKey Environmental Restoration, LLC (Benchmark TurnKey) has prepared this letter report to transmit the results of the 2017 first semi-annual post-remedial groundwater monitoring event conducted at the 3021 Orchard Park Road Brownfield Cleanup Program (BCP) Site, Orchard Park, New York (see Figure 1). The current groundwater event was performed June 6, 2017. Groundwater monitoring wells are shown on Figure 2. A summary of field activities and findings is presented below.

PURPOSE

As a requirement of the Site Management Plan (SMP), post-remedial groundwater sampling of monitoring wells MW-4A and MW-6 is to be performed biannually (twice per year) for the first two years then annually thereafter (until such time as the NYSDEC agrees that monitoring can be terminated) to assess the performance of the IRM remedy. Modification to the frequency or sampling requirements will require approval from the NYSDEC.

This semi-annual report includes a detailed discussion of current groundwater quality compared to historical, pre-remedial data for the Site. Tables and graphs are provided to summarize groundwater elevations, analytical data, and illustrate trends in groundwater quality.

FIELD ACTIVITIES & FINDINGS

In accordance with the SMP, wells MW-4A and MW-6 were sampled with SpeedBag HydraSleeves™. Field-measured and laboratory analytical data for the current monitoring event are presented in Table 1. Compounds detected above method detection limits (MDLs) are included with their associated concentration and NYSDEC Groundwater Quality Standard (NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values,

June 1998) for comparison. Concentrations exceeding NYSDEC GWQ/GVs are highlighted. Field forms are presented in Attachment 1 and the laboratory analytical data report is presented in Attachment 2.

HISTORICAL COMPARISONS

A comparison of the current analytical results (i.e., post-remedial) to the pre-remedial database indicates nearly 100% removal of cVOC (trichloroethene and tetrachloroethene) and daughter compound-impacts (i.e., cis-1,2-dichloroethene, 1,1-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride) for the current monitoring period. Concentrations of each pre-remedial compound have also trended well below the GWQS/GVs. Attachment 3 includes historical presentations of concentration versus time plots for select cVOCs identified on Table 1 above the GWQS/GVs. Concentrations reported below method detection limits (MDLs) (e.g., non-detect) are plotted at their respective MDLs.

Upon further examination, each cVOC plot represents a decreasing trend to a concentration well below the GWQS/GV.

NYSDEC EQUIS DELIVERABLES

On July 10, 2017, Benchmark TurnKey submitted the analytical data in Electronic Data Deliverable (EDD) format for the current monitoring event to the NYSDEC on behalf of 3021-3041 Orchard Park Road, LLC to satisfy the NYSDEC EQuIS submittal requirement. Benchmark TurnKey received confirmation on July 11, 2017 that the submittals were successfully uploaded and the data is available for use within the NYSDEC system.

PLANNED ACTIVITIES

The next planned groundwater monitoring event is tentatively scheduled for October 2017.

Please contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC

Bryan C. Hann
Senior Project Manager

ec: P. Hogan (3021-3041 Orchard Park Road LLC)
B. McIntyre (CCS Oncology, P.C.)

File: 0304-017-001

TABLES

TURNKEY ENVIRONMENTAL RESTORATION, LLC

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

PRE- & POST-INJECTION GROUNDWATER ANALYTICAL SUMMARY

First Semi-Annual Groundwater Monitoring Event
3021 Orchard Park Road Site (C915289)
Orchard Park, New York

Parameter [1]	CasNum	NY-GWQS	Units	Monitoring Location, Sample Date, Lab Data Package No.						
				Pre-Injection MW-4A 1/12/2015 L1500729	Pre-Injection MW-4A 03/25/2015 L1506003	Post-Injection MW-4A 06/06/2017 L1718736	Pre-Injection MW-6 4/6/2015 L1506785-01	Post-Injection MW-6 10/1/2015 L1524744	Post-Injection MW-6 11/2/2015 L1528297	Post-Injection MW-6 6/6/2017 L1718736
				Qual	Qual	Qual	Qual	Qual	Qual	Qual
Field Measurements										
Field pH	NA	**6.5 - 8.5**	S.U	6.89	6.76	7.20	6.80	6.56	6.01	6.28
Temperature	NA	-	DEG C	10.3	10.4	14.5	18.2	16.9	20.7	17.7
Specific Conductance	NA	-	UMHOS/CM	1586	1463	5015	2220	3539	3335	4567
Turbidity	NA	-	NTU	610	122	> 1000	33.5	> 1000	165	23.7
Dissolved Oxygen	NA	-	MG/L	1.59	1.7	2.11	2.17	1.3	2.26	6.84
Redox Potential	NA	-	mV	23	9	-18	50	-68	-112	-114
Volatile Organics by GC/MS - Westborough Lab										
Acetone	67-64-1	**0.05**	mg/l	0.0026 J	0.005 U	0.005 U	2.6 J	0.3 J	0.0077	0.045
Benzene	71-43-2	**0.001**	mg/l	0.0005 U	0.0005 U	0.0005 U	0.00016 U	0.016 U	0.00018 J	0.0027
Bromomethane	74-83-9	**0.005**	mg/l	0.0025 U	0.0025 U	0.0025 U	0.0007 U	0.42	0.0007 U	0.0025 U
2-Butanone	78-93-3	**0.05**	mg/l	0.005 U	0.005 U	0.005 U	0.0005 U	0.19 J	0.011	0.019
Carbon Disulfide	75-15-0	**-**	mg/l	0.005 U	0.005 U	0.005 U	0.005 U	0.5 U	0.005 U	0.0038 J
Chloroethane	75-00-3	**0.005**	mg/l	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.25 U	0.0025 U	0.0038
2-Hexanone	591-78-6	**0.05**	mg/l	0.005 U	0.005 U	0.005 U	0.005 U	0.5 U	0.005 U	0.0046 J
Methylene Chloride	75-09-2	**0.005**	mg/l	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.07 U	0.0016 J	0.0025 U
Toluene	108-88-3	**0.005**	mg/l	0.0025 U	0.0025 U	0.0025 U	0.0007 U	0.07 U	0.00072 J	0.0025 U
Xylene, Total	1330-20-7	**0.005**	mg/l	0.0025 U	0.0025 U	0.0025 U	0.0007 U	0.07 U	0.00199 J	0.0024 J
cis-1,2-Dichloroethene	156-59-2	**0.005**	mg/l	0.022	0.024	0.0025 U	5.8	0.29	0.18	0.0011 J
1,1-Dichloroethene	75-35-4	**0.005**	mg/l	0.0025 U	0.0025 U	0.0025 U	0.00014 U	0.014 U	0.00043 J	0.0025 U
Tetrachloroethene	127-18-4	**0.005**	mg/l	0.0005 U	0.0005 U	0.0005 U	0.97	0.019 J	0.0021	0.00021 J
trans-1,2-Dichloroethene	156-60-5	**0.005**	mg/l	0.0025 U	0.0025 U	0.0025 U	0.0007 U	0.07 U	0.0074	0.0025 U
Trichloroethene	79-01-6	**0.005**	mg/l	0.0005 U	0.0005 U	0.0005 U	1.5	0.044 J	0.013	0.00069
Vinyl chloride	75-01-4	**0.002**	mg/l	0.001 U	0.001 U	0.001 U	0.001 U	0.047 J	0.051	0.001 U
Total Detected cVOCs	***NA***	***NA***	***mg/l***	***0.022***	***0.024***	***0***	***8.27***	***0.4***	***0.25393***	***0.002***
General Chemistry - Westborough Lab										
Chemical Oxygen Demand (COD)	10004	**--**	mg/l	-	-	-	-	18,000	960	-
Total Organic Carbon (TOC)	7440-44-0	**--**	mg/l	-	-	-	-	770	260	-
Anions by Ion Chromatography - Westborough Lab										
Nitrogen, Nitrate	14797-55-8	**10**	mg/l	-	-	-	-	0.015 J	0.019 U	0.064 J
Sulfate	14808-79-8	**250**	mg/l	-	-	-	-	4.52	0.448 J	0.01 U
Dissolved Gases by GC - Mansfield Lab										
Carbon Dioxide	124-38-9	**--**	mg/l	-	-	-	-	213	202	-
Ethane	74-84-0	**--**	mg/l	-	-	-	-	0.011	0.00876	0.00226
Ethene	74-85-1	**--**	mg/l	-	-	-	-	0.00928	0.0362	0.0005 U
Methane	74-82-8	**--**	mg/l	-	-	-	-	0.2	0.178	20200 D
Total Metals - Westborough Lab										
Aluminum, Total	7429-90-5	**--**	mg/l	7.84	-	-	0.44	-	-	-
Antimony, Total	7440-36-0	**0.003**	mg/l	0.00074 U	-	-	0.0103 J	-	-	-
Arsenic, Total	7440-38-2	**0.025**	mg/l	0.00344	-	-	0.005 U	-	-	-
Barium, Total	7440-39-3	**1**	mg/l	0.1501	-	-	0.055	-	-	-
Cadmium, Total	7440-43-9	**0.005**	mg/l	0.00015 J	-	-	0.005 U	-	-	-
Calcium, Total	7440-70-2	**--**	mg/l	291	-	-	240	-	-	-
Chromium, Total	7440-47-3	**0.05**	mg/l	0.01221	-	-	0.01 U	-	-	-

TABLE 1

PRE- & POST-INJECTION GROUNDWATER ANALYTICAL SUMMARY

First Semi-Annual Groundwater Monitoring Event
3021 Orchard Park Road Site (C915289)
Orchard Park, New York

Parameter [1]	CasNum	NY-GWQS	Units	Monitoring Location, Sample Date, Lab Data Package No.						
				Pre-Injection MW-4A 1/12/2015 L1500729	Pre-Injection MW-4A 03/25/2015 L1506003	Post-Injection MW-4A 06/06/2017 L1718736	Pre-Injection MW-6 4/6/2015 L1506785-01	Post-Injection MW-6 10/1/2015 L1524744	Post-Injection MW-6 11/2/2015 L1528297	Post-Injection MW-6 6/6/2017 L1718736
				Qual	Qual	Qual	Qual	Qual	Qual	Qual
Cobalt, Total	7440-48-4	--	mg/l	0.00678	-	-	0.02 U	-	-	-
Copper, Total	7440-50-8	**0.2**	mg/l	0.01189 U	-	-	0.01 U	-	-	-
Iron, Total	7439-89-6	**0.3**	mg/l	14.2	-	-	1.3	23	23.7	-
Lead, Total	7439-92-1	**0.025**	mg/l	0.00488 U	-	-	0.01 U	-	-	-
Magnesium, Total	7439-95-4	**35**	mg/l	105	-	-	73	-	-	-
Manganese, Total	7439-96-5	**0.3**	mg/l	0.3566	-	-	0.199	2	2.265	-
Nickel, Total	7440-02-0	**0.1**	mg/l	0.01989	-	-	0.0053 J	-	-	-
Potassium, Total	7440-09-7	--	mg/l	5.62	-	-	12	-	-	-
Sodium, Total	7440-23-5	**20**	mg/l	62.9	-	-	120	-	-	-
Vanadium, Total	7440-62-2	--	mg/l	0.01465	-	-	0.0012 J	-	-	-
Zinc, Total	7440-66-6	**2**	mg/l	0.04199	-	-	0.05 U	-	-	-
Dissolved Metals - Westborough Lab										
Iron, Dissolved	7439-89-6	**0.3**	mg/l	1.31	-	-	-	8.7	17	0.685
Manganese, Dissolved	7439-96-5	**0.3**	mg/l	0.1459	-	-	-	1.58	2.232	3.267

Notes:

1. Only compounds detected with reporting limits that exceed the corresponding regulatory standard in at least one sample are included on the summary sheets.
2. NYS Ambient Water Quality Class GA Groundwater Quality Standards/Guidance Values; NYSDEC June 1998 Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1
3. Validated data and qualifiers are in **RED.**

Qualifier Key:

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
U = The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
UJ = The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.

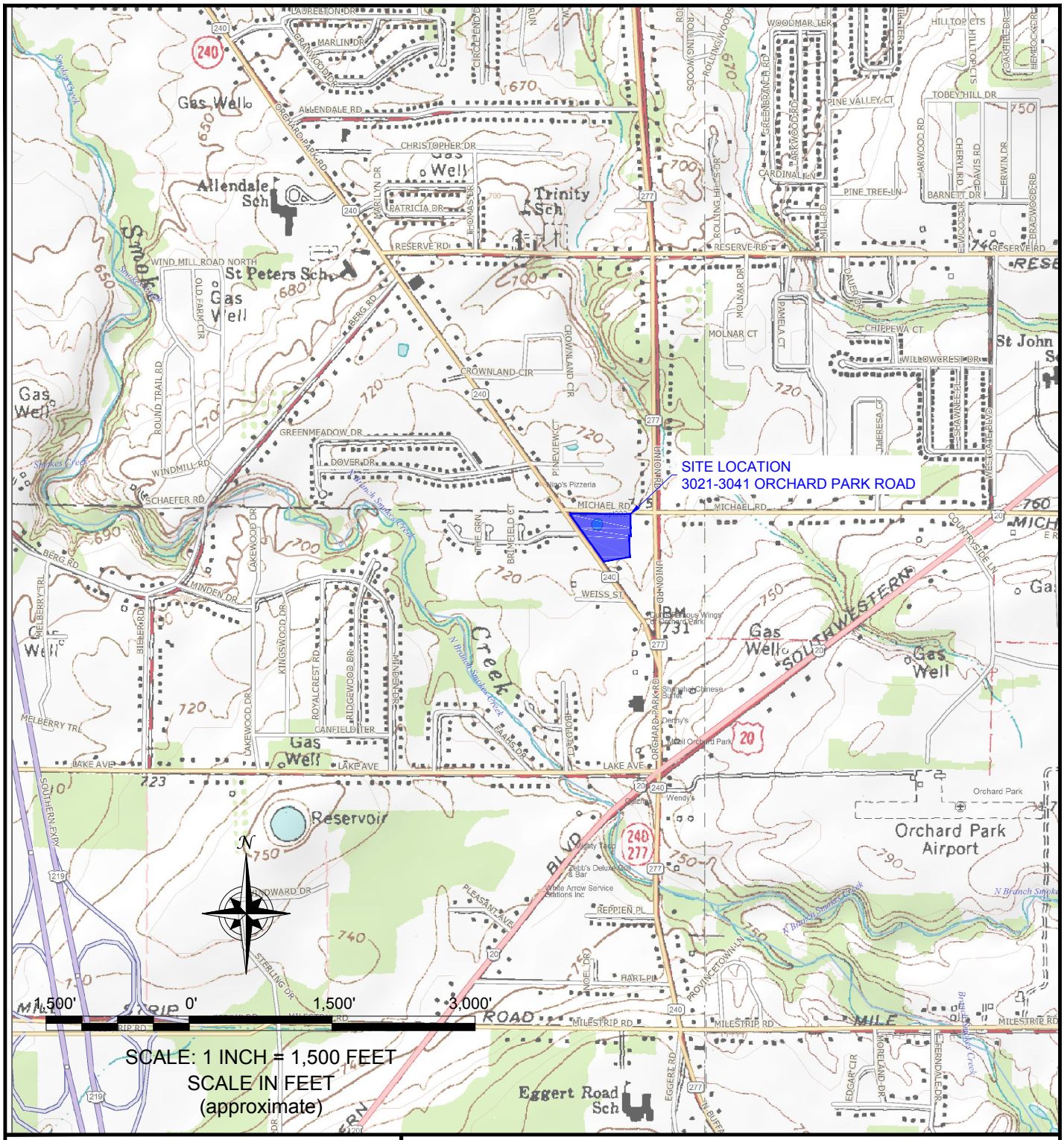
Color Code:

= chlorinated VOCs (cVOCs) are highlighted in BLUE
= concentration exceeds the NYSDEC Class GA GWQS/GV.

FIGURES

F:\CAD\TurnKey\3021-3041 Orchard Park Rd LLC (C915289)\17 - Post-Remedial GWM Report\2017-01; First Semi-Annual GWM Report\Figure 1; Site Location and Vicinity.dwg

FIGURE 1



BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

PROJECT NO.: 0304-017-001

DATE: JULY 2017

DRAFTED BY: BCH

SITE LOCATION AND VICINITY MAP

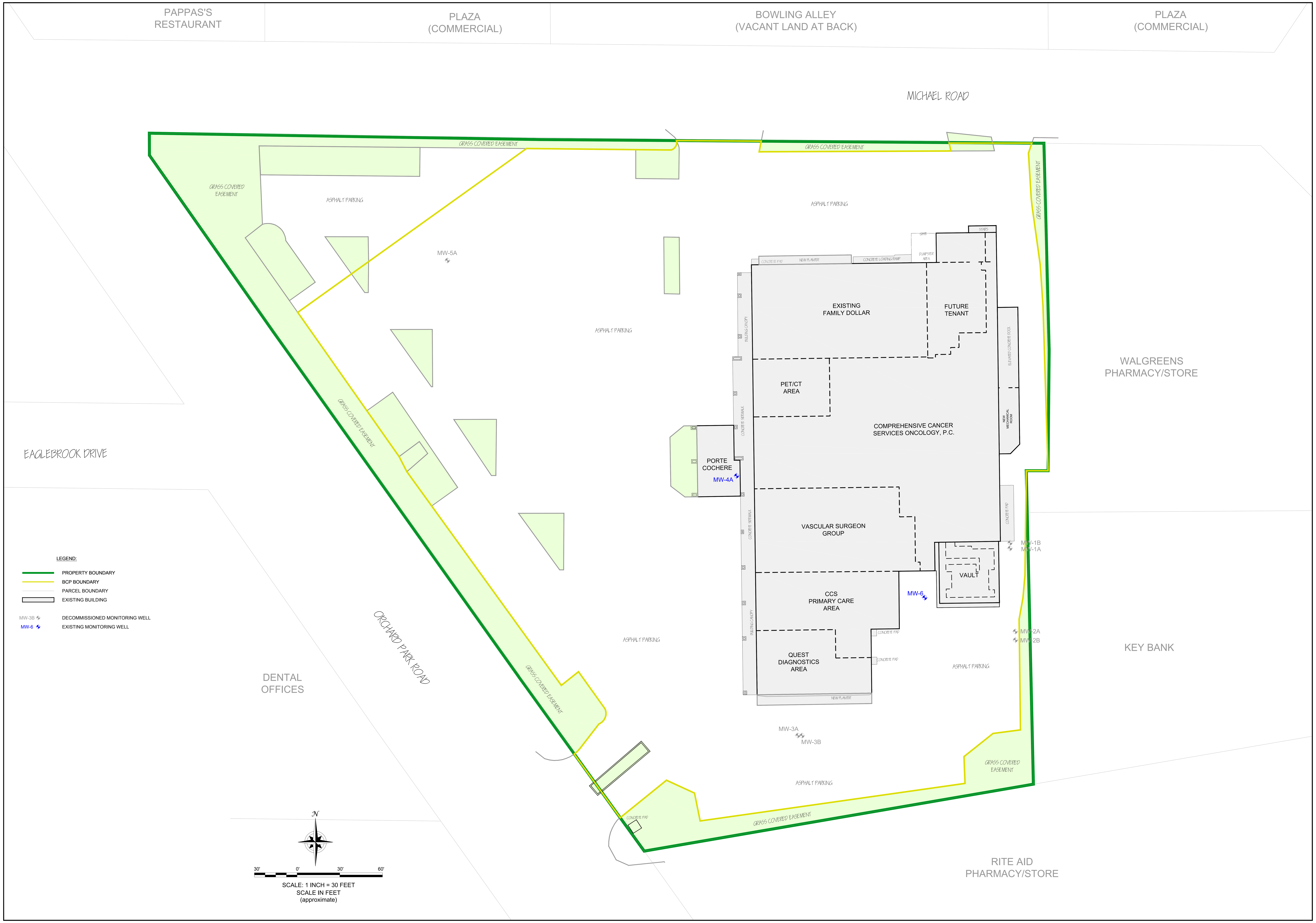
GROUNDWATER MONITORING REPORT

3021 ORCHARD PARK ROAD SITE
ORCHARD PARK, NEW YORK

PREPARED FOR

3021-3041 ORCHARD PARK ROAD, LLC

DISCLAIMER: ***PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. & TURNKEY ENVIRONMENTAL RESTORATION, LLC*** *IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC & TURNKEY ENVIRONMENTAL RESTORATION, LLC.*



BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TURNKEY ENVIRONMENTAL RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218 (716) 856-0599

JOB NO.: 0304-017-001

REVISIONS

NO.	BY	DATE	REMARKS

SEAL

DRAWN BY: BCH

DATE: JULY 2017

CHECKED BY:

APPROVED BY:

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SITE PLAN

GROUNDWATER MONITORING REPORT

3021 ORCHARD PARK ROAD

ORCHARD PARK, NEW YORK

PREPARED FOR

3021-3041 ORCHARD PARK ROAD, LLC & CCS ONCOLOGY, P.C.

FIGURE 2

ATTACHMENT 1

FIELD FORMS

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: 3021 OP RD GWM 2017

Project No.: 0304-017-001

Client: 3021 OP RD LLC

Date: 6/6/17

Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☒ pH meter	units	1315	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☒ 6223973 ☐	TAB	4.00 7.00 10.01	3.98 7.01 9.95	4.0 7.0 10.0
☒ Turbidity meter	NTU	1315	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☒	TAB	< 0.4 or 10 for 2100 Q 20 100 800	0.41 18.7 98.8 792	0.4 20.0 100 800
☐ Turbidity meter	NTU		LaMotte 2020	6523-1816 (La) ☐		0.0 NTU 1.0 NTU 10.0 NTU		
☒ Sp. Cond. meter	uS mS		Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☒ 6223973 ☐	TAB	1413 mS @ 25 °C	1415	1413
☐ PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
☒ Dissolved Oxygen	ppm		HACH Model HQ30d	080700023281 ☐ 100500041867 ☒ 140200100319 ☐	TAB	100% Satuartion	✓	99.8 % Slope
☐ Particulate meter	mg/m³					zero air		
☐ Oxygen	%					open air		
☐ Hydrogen sulfide	ppm					open air		
☐ Carbon monoxide	ppm					open air		
☐ LEL	%					open air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: TAB **DATE:** 6/6/17

HYDROSLEEVE SAMPLE COLLECTION LOG

PROJECT INFORMATION

Project Name: 3021 Orchard Park Rd Site
Project No.: 0304-017-001
Client: 3021 Orchard Park Rd LLC
Location: Orchard Park, NY

SAMPLE DESCRIPTION

I.D.: **MW-4A**

Matrix: ☐ SURFACE WATER ☐ STORM ☐ SEEP ☑ GROUNDWATER ☐ INFLUENT ☐ EFFLUENT

SAMPLE INFORMATION

Date Collected: 6/6/17
Time Collected: 1515
Date Shipped to Lab: 6/6/17
Collected By: TAB

Sample Type: ☑ POINT ☐ GRAB ☐ COMPOSITE

Sample Collection Method: ☐ DIRECT DIP ☐ SS / POLY. DIPPER ☐ PERISTALTIC PUMP ☐ POLY. DISP. BAILER ☐ ISCO SAMPLER ☑ HYDROSLEEVE

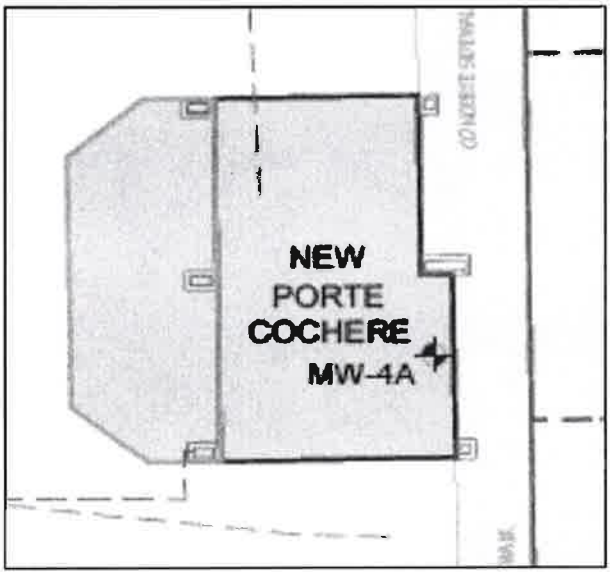
SAMPLING INFORMATION

Depth to Water: 6.32
Depth to Bottom: 19.30
Screen Length: 15-feet
Submerged bag time: 5 min

Parameter	First	Last	Units
pH	7.20		units
Temp.	14.5		°C
Cond.	5015		mS
Turbidity	>1000		NTU
Eh / ORP	-18		mV
D.O.	2.11		ppm
Odor	No odor		olfactory
Appearance	Turbid		visual

LOCATION SKETCH

(not to scale, dimensions are approximate)



SAMPLE DESCRIPTION (appearance, olfactory): Turb. & No odor

SAMPLE ANALYSIS (depth, laboratory analysis required): CP-51 + TCL VOC 8260

ADDITIONAL REMARKS: NONE

PREPARED BY: TAB **DATE:** 6/6/17

HYDROSLEEVE SAMPLE COLLECTION LOG

PROJECT INFORMATION

Project Name: 3021 Orchard Park Rd Site
Project No.: 0304-017-001
Client: 3021 Orchard Park Rd LLC
Location: Orchard Park, NY

SAMPLE DESCRIPTION

I.D.: **MW-6**

Matrix: ☐ SURFACE WATER ☐ STORM ☐ SEEP ☑ GROUNDWATER ☐ INFLUENT ☐ EFFLUENT

SAMPLE INFORMATION

Date Collected: 6/6/17
Time Collected: 1430
Date Shipped to Lab: 6/6/17
Collected By: TAB

Sample Type: ☑ POINT ☐ GRAB ☐ COMPOSITE

Sample Collection Method: ☐ DIRECT DIP ☐ SS / POLY. DIPPER ☐ PERISTALTIC PUMP ☐ POLY. DISP. BAILER ☐ ISCO SAMPLER ☑ HYDROSLEEVE

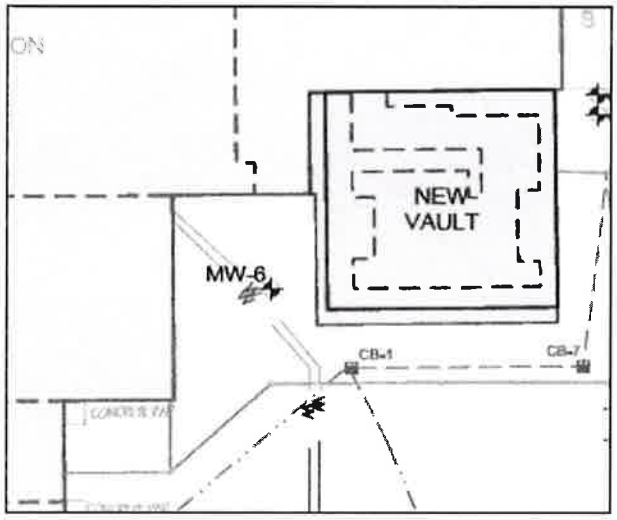
SAMPLING INFORMATION

Depth to Water: 4.53
Depth to Bottom: 18.73
Screen Length: 14.5'
Submerged bag time: 5min

Parameter	First	Last	Units
pH	6.28		units
Temp.	17.7		°C
Cond.	4567		mS
Turbidity	23.7		NTU
Eh / ORP	-114		mV
D.O.	1.84		ppm
Odor	No odor		olfactory
Appearance	clear		visual

LOCATION SKETCH

(not to scale, dimensions are approximate)



SAMPLE DESCRIPTION (appearance, olfactory): clear No odor

SAMPLE ANALYSIS (depth, laboratory analysis required): TCL+CP-51 VOC 8260, Dissolved Iron and manganese, sulfate, Nitrate + Nitrite, Dissolved gases Methane, Ethane + ether.

ADDITIONAL REMARKS: Water was in Road Box.

PREPARED BY: TAB **DATE:** 6/6/17

ATTACHMENT 2

LABORATORY
ANALYTICAL DATA PACKAGE

ANALYTICAL REPORT

Lab Number:	L1718736
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Bryan Hann
Phone:	(716) 856-0599
Project Name:	3021 OP RD GWM
Project Number:	304-017-001
Report Date:	06/13/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1718736-01	MW-4A	WATER	ORCHARD PARK NY	06/06/17 15:15	06/06/17
L1718736-02	MW-6	WATER	ORCHARD PARK NY	06/06/17 14:30	06/06/17
L1718736-03	TRIP BLANK	WATER	ORCHARD PARK NY	06/06/17 00:00	06/06/17

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	3021 OP RD GWM	**Lab Number:**	L1718736
Project Number:	304-017-001	**Report Date:**	06/13/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Dissolved Gases

L1718736-02 was collected in a pre-preserved vial; however, the pH of the sample was determined to be greater than two.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 06/13/17

ORGANICS

VOLATILES

Project Name: 3021 OP RD GWM
Project Number: 304-017-001
Lab Number: L1718736
Report Date: 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-01
Client ID: MW-4A
Sample Location: ORCHARD PARK NY

Date Collected: 06/06/17 15:15
Date Received: 06/06/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/12/17 01:25
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 3021 OP RD GWM
Lab Number: L1718736
Project Number: 304-017-001
Report Date: 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-01
Client ID: MW-4A
Sample Location: ORCHARD PARK NY
Date Collected: 06/06/17 15:15
Date Received: 06/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	116		70-130

Project Name: 3021 OP RD GWM
Project Number: 304-017-001
Lab Number: L1718736
Report Date: 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-02
Client ID: MW-6
Sample Location: ORCHARD PARK NY
Date Collected: 06/06/17 14:30
Date Received: 06/06/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/13/17 10:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.21	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	2.7		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	3.8		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.69		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 3021 OP RD GWM **Lab Number:** L1718736

Project Number: 304-017-001 **Report Date:** 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-02 Date Collected: 06/06/17 14:30

Client ID: MW-6 Date Received: 06/06/17

Sample Location: ORCHARD PARK NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	1.4	J	ug/l	2.5	0.70	1
o-Xylene	1.0	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.1	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	45		ug/l	5.0	1.5	1
Carbon disulfide	3.8	J	ug/l	5.0	1.0	1
2-Butanone	19		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	4.6	J	ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: 3021 OP RD GWM
Project Number: 304-017-001
Lab Number: L1718736
Report Date: 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-02
Client ID: MW-6
Sample Location: ORCHARD PARK NY

Date Collected: 06/06/17 14:30
Date Received: 06/06/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 117,-
Analytical Date: 06/12/17 11:07
Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	22500	E	ug/l	2.00	0.500	1	A
Ethene	ND		ug/l	0.500	0.500	1	A
Ethane	2.26		ug/l	0.500	0.500	1	A

Project Name: 3021 OP RD GWM
Lab Number: L1718736
Project Number: 304-017-001
Report Date: 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-02 D
Client ID: MW-6
Sample Location: ORCHARD PARK NY

Date Collected: 06/06/17 14:30
Date Received: 06/06/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 117,-
Analytical Date: 06/12/17 12:43
Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	20200		ug/l	10.0	2.50	5	A

Project Name: 3021 OP RD GWM
Lab Number: L1718736
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Report Date: 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-03
Client ID: TRIP BLANK
Sample Location: ORCHARD PARK NY

Date Collected: 06/06/17 00:00
Date Received: 06/06/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/11/17 20:49
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 3021 OP RD GWM **Lab Number:** L1718736

Project Number: 304-017-001 **Report Date:** 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-03 Date Collected: 06/06/17 00:00

Client ID: TRIP BLANK Date Received: 06/06/17

Sample Location: ORCHARD PARK NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	110		70-130

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/11/17 18:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1012122-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/11/17 18:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1012122-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/11/17 18:17
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03 Batch: WG1012122-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 06/12/17 10:11
Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 02 Batch: WG1012148-3						
Methane	1.45	J	ug/l	2.00	0.500	A
Ethene	ND		ug/l	0.500	0.500	A
Ethane	ND		ug/l	0.500	0.500	A

Project Name: 3021 OP RD GWM
Project Number: 304-017-001
Lab Number: L1718736
Report Date: 06/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/13/17 10:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1012618-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: 3021 OP RD GWM
Project Number: 304-017-001
Lab Number: L1718736
Report Date: 06/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/13/17 10:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1012618-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/13/17 10:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1012618-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3021 OP RD GWM

Project Number: 304-017-001

Lab Number: L1718736

Report Date: 06/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1012122-3 WG1012122-4								
Methylene chloride	120		120		70-130	0		20
1,1-Dichloroethane	130		130		70-130	0		20
Chloroform	120		120		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	120		120		70-130	0		20
Dibromochloromethane	98		97		63-130	1		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	99		99		70-130	0		20
Chlorobenzene	90		91		75-130	1		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	120		120		67-130	0		20
trans-1,3-Dichloropropene	99		100		70-130	1		20
cis-1,3-Dichloropropene	110		120		70-130	9		20
Bromoform	90		88		54-136	2		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	120		120		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	96		98		70-130	2		20
Chloromethane	110		110		64-130	0		20
Bromomethane	78		73		39-139	7		20
Vinyl chloride	110		120		55-140	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3021 OP RD GWM

Project Number: 304-017-001

Lab Number: L1718736

Report Date: 06/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1012122-3 WG1012122-4								
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	100		120		61-145	18		20
trans-1,2-Dichloroethene	120		120		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	94		95		70-130	1		20
1,3-Dichlorobenzene	95		97		70-130	2		20
1,4-Dichlorobenzene	94		96		70-130	2		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	120		120		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	86		88		36-147	2		20
Acetone	130		120		58-148	8		20
Carbon disulfide	110		130		51-130	17		20
2-Butanone	130		**140**	Q	63-138	7		20
4-Methyl-2-pentanone	92		97		59-130	5		20
2-Hexanone	86		86		57-130	0		20
Bromochloromethane	130		120		70-130	8		20
1,2-Dibromoethane	94		95		70-130	1		20
1,2-Dibromo-3-chloropropane	87		90		41-144	3		20
Isopropylbenzene	91		91		70-130	0		20
1,2,3-Trichlorobenzene	88		90		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3021 OP RD GWM

Project Number: 304-017-001

Lab Number: L1718736

Report Date: 06/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03 Batch: WG1012122-3 WG1012122-4								
1,2,4-Trichlorobenzene	85		86		70-130	1		20
Methyl Acetate	**140**	Q	**140**	Q	70-130	0		20
Cyclohexane	120		120		70-130	0		20
1,4-Dioxane	126		128		56-162	2		20
Freon-113	100		120		70-130	18		20
Methyl cyclohexane	110		110		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	94		96		70-130
4-Bromofluorobenzene	94		96		70-130
Dibromofluoromethane	106		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3021 OP RD GWM

Project Number: 304-017-001

Lab Number: L1718736

Report Date: 06/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 02 Batch: WG1012148-2									
Methane	113		-		80-120	-		25	A
Ethene	102		-		80-120	-		25	A
Ethane	102		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3021 OP RD GWM

Project Number: 304-017-001

Lab Number: L1718736

Report Date: 06/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1012618-3 WG1012618-4								
Methylene chloride	91		90		70-130	1		20
1,1-Dichloroethane	91		93		70-130	2		20
Chloroform	90		93		70-130	3		20
Carbon tetrachloride	79		80		63-132	1		20
1,2-Dichloropropane	90		93		70-130	3		20
Dibromochloromethane	84		85		63-130	1		20
1,1,2-Trichloroethane	93		95		70-130	2		20
Tetrachloroethene	86		89		70-130	3		20
Chlorobenzene	88		90		75-130	2		20
Trichlorofluoromethane	89		93		62-150	4		20
1,2-Dichloroethane	92		94		70-130	2		20
1,1,1-Trichloroethane	84		86		67-130	2		20
Bromodichloromethane	93		94		67-130	1		20
trans-1,3-Dichloropropene	80		80		70-130	0		20
cis-1,3-Dichloropropene	82		82		70-130	0		20
Bromoform	87		84		54-136	4		20
1,1,2,2-Tetrachloroethane	98		100		67-130	2		20
Benzene	88		90		70-130	2		20
Toluene	90		92		70-130	2		20
Ethylbenzene	94		97		70-130	3		20
Chloromethane	82		70		64-130	16		20
Bromomethane	97		96		39-139	1		20
Vinyl chloride	87		90		55-140	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3021 OP RD GWM

Project Number: 304-017-001

Lab Number: L1718736

Report Date: 06/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1012618-3 WG1012618-4								
Chloroethane	92		95		55-138	3		20
1,1-Dichloroethene	88		91		61-145	3		20
trans-1,2-Dichloroethene	85		88		70-130	3		20
Trichloroethene	85		88		70-130	3		20
1,2-Dichlorobenzene	90		91		70-130	1		20
1,3-Dichlorobenzene	90		91		70-130	1		20
1,4-Dichlorobenzene	88		89		70-130	1		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	90		95		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	87		86		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	68		71		36-147	4		20
Acetone	140		130		58-148	7		20
Carbon disulfide	72		78		51-130	8		20
2-Butanone	110		120		63-138	9		20
4-Methyl-2-pentanone	100		100		59-130	0		20
2-Hexanone	110		110		57-130	0		20
Bromochloromethane	86		87		70-130	1		20
1,2-Dibromoethane	95		96		70-130	1		20
1,2-Dibromo-3-chloropropane	81		78		41-144	4		20
Isopropylbenzene	97		100		70-130	3		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1012618-3 WG1012618-4								
1,2,4-Trichlorobenzene	89		90		70-130	1		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	92		96		70-130	4		20
1,4-Dioxane	80		94		56-162	16		20
Freon-113	92		93		70-130	1		20
Methyl cyclohexane	89		93		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		106		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	106		104		70-130
Dibromofluoromethane	101		101		70-130

METALS

Project Name: 3021 OP RD GWM
Lab Number: L1718736
Project Number: 304-017-001
Report Date: 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-02
Client ID: MW-6
Sample Location: ORCHARD PARK NY
Matrix: Water
Date Collected: 06/06/17 14:30
Date Received: 06/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Iron, Dissolved	0.685		mg/l	0.0500	0.0191	1	06/13/17 08:25	06/13/17 11:57	EPA 3005A	1,6020A	BV
Manganese, Dissolved	3.267		mg/l	0.00100	0.00044	1	06/13/17 08:25	06/13/17 11:57	EPA 3005A	1,6020A	BV

Project Name: 3021 OP RD GWM
Project Number: 304-017-001
Lab Number: L1718736
Report Date: 06/13/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 02 Batch: WG1012466-1										
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	06/13/17 08:25	06/13/17 11:47	1,6020A	BV
Manganese, Dissolved	0.00073	J	mg/l	0.00100	0.00044	1	06/13/17 08:25	06/13/17 11:47	1,6020A	BV

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3021 OP RD GWM

Project Number: 304-017-001

Lab Number: L1718736

Report Date: 06/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1012466-2								
Iron, Dissolved	109		-		80-120	-		
Manganese, Dissolved	103		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1012466-3 QC Sample: L1718736-02 Client ID: MW-6												
Iron, Dissolved	0.685	1	1.70	102		-	-		75-125	-		20
Manganese, Dissolved	3.267	0.5	3.830	113		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1012466-4 QC Sample: L1718736-02 Client ID: MW-6						
Iron, Dissolved	0.685	0.684	mg/l	0		20
Manganese, Dissolved	3.267	3.330	mg/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

SAMPLE RESULTS

Lab ID: L1718736-02
Client ID: MW-6
Sample Location: ORCHARD PARK NY
Matrix: Water

Date Collected: 06/06/17 14:30
Date Received: 06/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Nitrogen, Nitrate/Nitrite	0.064	J	mg/l	0.10	0.023	1	-	06/07/17 22:38	121,4500NO3-F	CW
Sulfate	ND		mg/l	10	1.4	1	06/07/17 12:23	06/07/17 12:23	1,9038	BR

Project Name: 3021 OP RD GWM
Project Number: 304-017-001
Lab Number: L1718736
Report Date: 06/13/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1010618-1										
Sulfate	ND		mg/l	10	1.4	1	06/07/17 12:23	06/07/17 12:23	1,9038	BR
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1010838-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.023	1	-	06/07/17 21:16	121,4500NO3-F	CW

Lab Control Sample Analysis

Batch Quality Control

Project Name: 3021 OP RD GWM

Project Number: 304-017-001

Lab Number: L1718736

Report Date: 06/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1010618-2								
Sulfate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1010838-2								
Nitrogen, Nitrate/Nitrite	100		-		90-110	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1010618-4 QC Sample: L1718653-04 Client ID: MS Sample												
Sulfate	7.4J	20	28	140		-	-		55-147	-		14
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1010838-4 QC Sample: L1718647-06 Client ID: MS Sample												
Nitrogen, Nitrate/Nitrite	2.0	4	5.7	93		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1010618-3 QC Sample: L1718653-04 Client ID: DUP Sample						
Sulfate	7.4J	7.5J	mg/l	NC		14
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1010838-3 QC Sample: L1718647-06 Client ID: DUP Sample						
Nitrogen, Nitrate/Nitrite	2.0	2.1	mg/l	5		20

Project Name: 3021 OP RD GWM
Project Number: 304-017-001

Lab Number: L1718736
Report Date: 06/13/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1718736-01A	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		NYTCL-8260(14)
L1718736-01B	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		NYTCL-8260(14)
L1718736-01C	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		NYTCL-8260(14)
L1718736-02A	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		NYTCL-8260(14)
L1718736-02B	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		NYTCL-8260(14)
L1718736-02C	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		NYTCL-8260(14)
L1718736-02D	20ml Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		DISSGAS(14)
L1718736-02E	20ml Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		DISSGAS(14)
L1718736-02F	Plastic 120ml unpreserved	A	7	7	3.6	Y	Absent		SO4-9038(28)
L1718736-02G	Plastic 250ml H2SO4 preserved	A	<2	<2	3.6	Y	Absent		NO3/NO2-4500(28)
L1718736-02H	Plastic 250ml unpreserved	A	7	7	3.6	Y	Absent		-
L1718736-02X	Plastic 250ml HNO3 preserved Filtrates	A	<2	<2	3.6	Y	Absent		MN-6020S(180),FE-6020S(180)
L1718736-03A	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		NYTCL-8260(14)
L1718736-03B	Vial HCl preserved	A	N/A	N/A	3.6	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	3021 OP RD GWM	**Lab Number:**	L1718736
Project Number:	304-017-001	**Report Date:**	06/13/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	3021 OP RD GWM	**Lab Number:**	L1718736
Project Number:	304-017-001	**Report Date:**	06/13/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	3021 OP RD GWM	**Lab Number:**	L1718736
Project Number:	304-017-001	**Report Date:**	06/13/17

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-9288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 6/7/17

ALPHA Job #: L1718736

Client Information

Client: Turnkey Environmental
Address: 2558 Hamburg Turnpike Suite 300 Lackawanna NY
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: JBehrendt@Turkey.com

Project Information

Project Name: 3021 OP RD GWM
Project Location: Orchard Park NY
Project #: 304-017-001
(Use Project name as Project #) ☒
Project Manager: Bryan Hann
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please Filter and Preserve Dissolved Metals In Lab

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL-8260 TCL-57	Dissolved Metals Iron, Manganese Sulfide	Nitrate Nitrite	Dissolved methane ethane gases ethene				Total Bottle
18736-01	MW-4A	6/6/17	1515	water	TAB	3							
02	~~MW-3A~~ MW-6	↓	1430	↓	↓	3	1	1	1	2			
03	Trip Blank					1							

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	P	P	P	V				
Preservative	B	A	A	D	B				

Relinquished By:	Date/Time	Received By:	Date/Time
	6/6/17 1609	Eric Snyder AAL	6/6/17 1700
Eric Snyder AAL	6/6/17 1700		6/7/17 0160

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

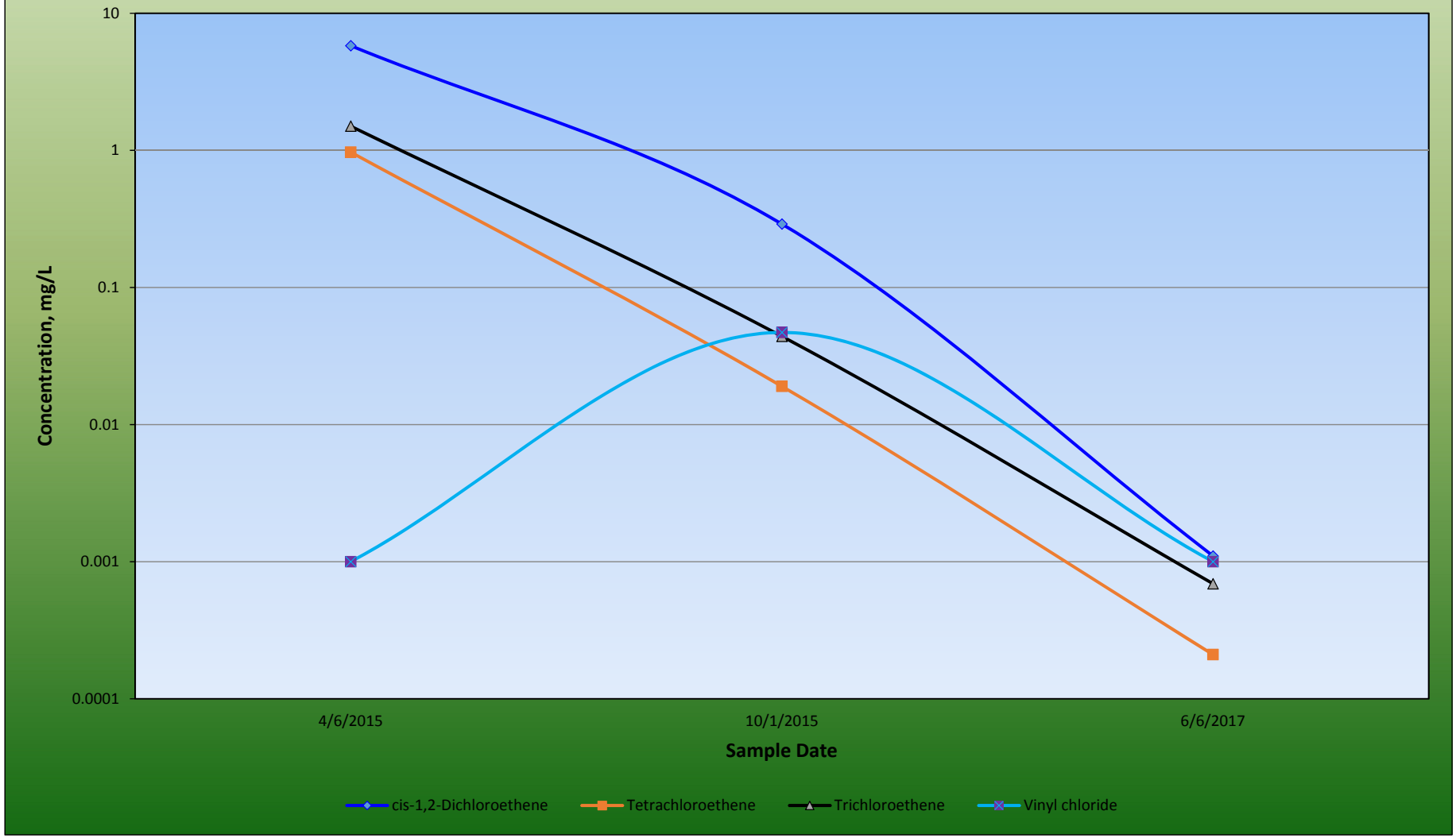
ATTACHMENT 3

TIME-CONCENTRATION PLOTS

ATTACHMENT 3-1

cVOC CONCENTRATION vs. TIME

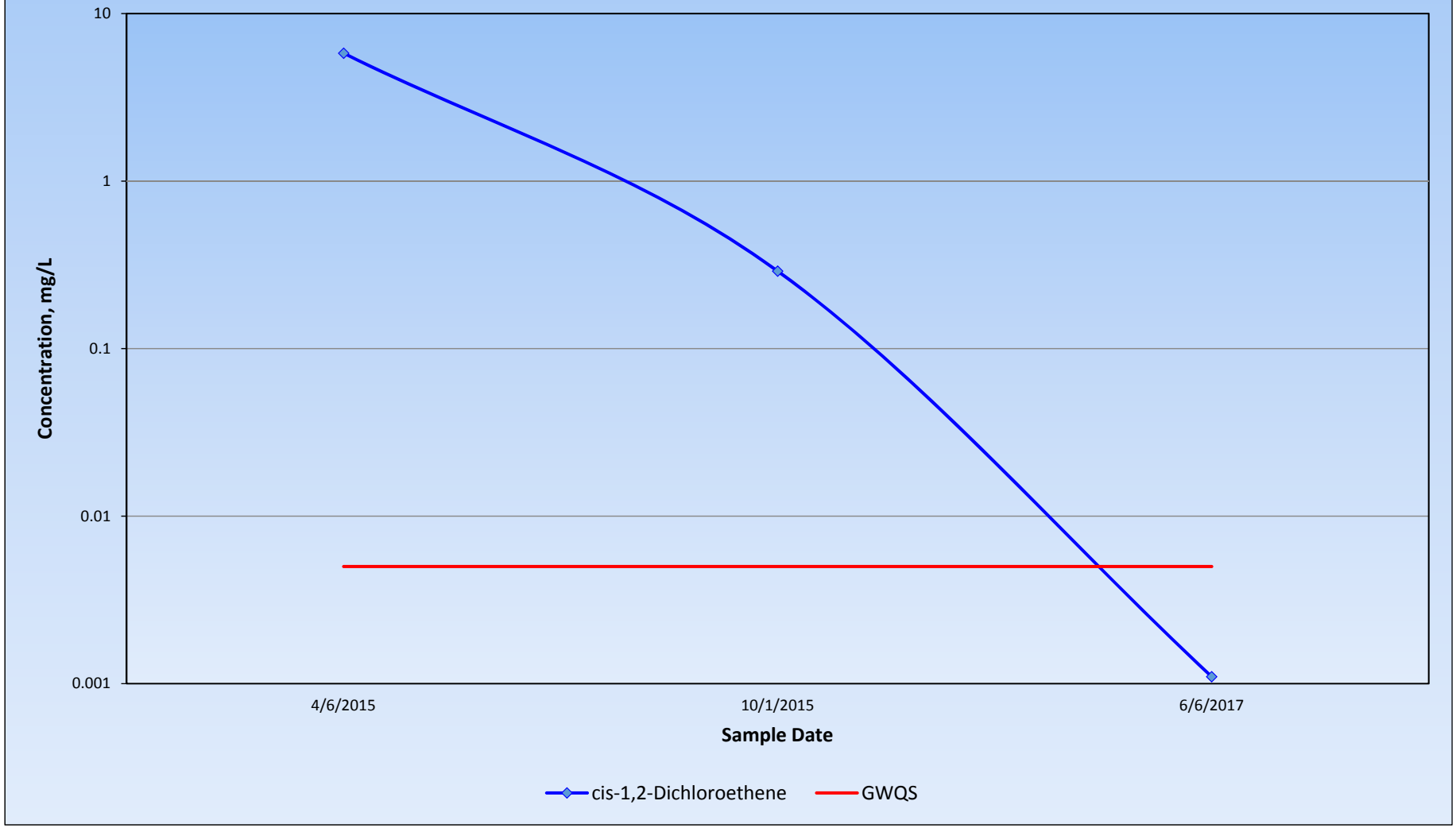
3021 Orchard Park Road Site
Groundwater Monitoring Report



ATTACHMENT 3-2

cis-1,2-DICHLOROETHENE CONCENTRATION vs. TIME

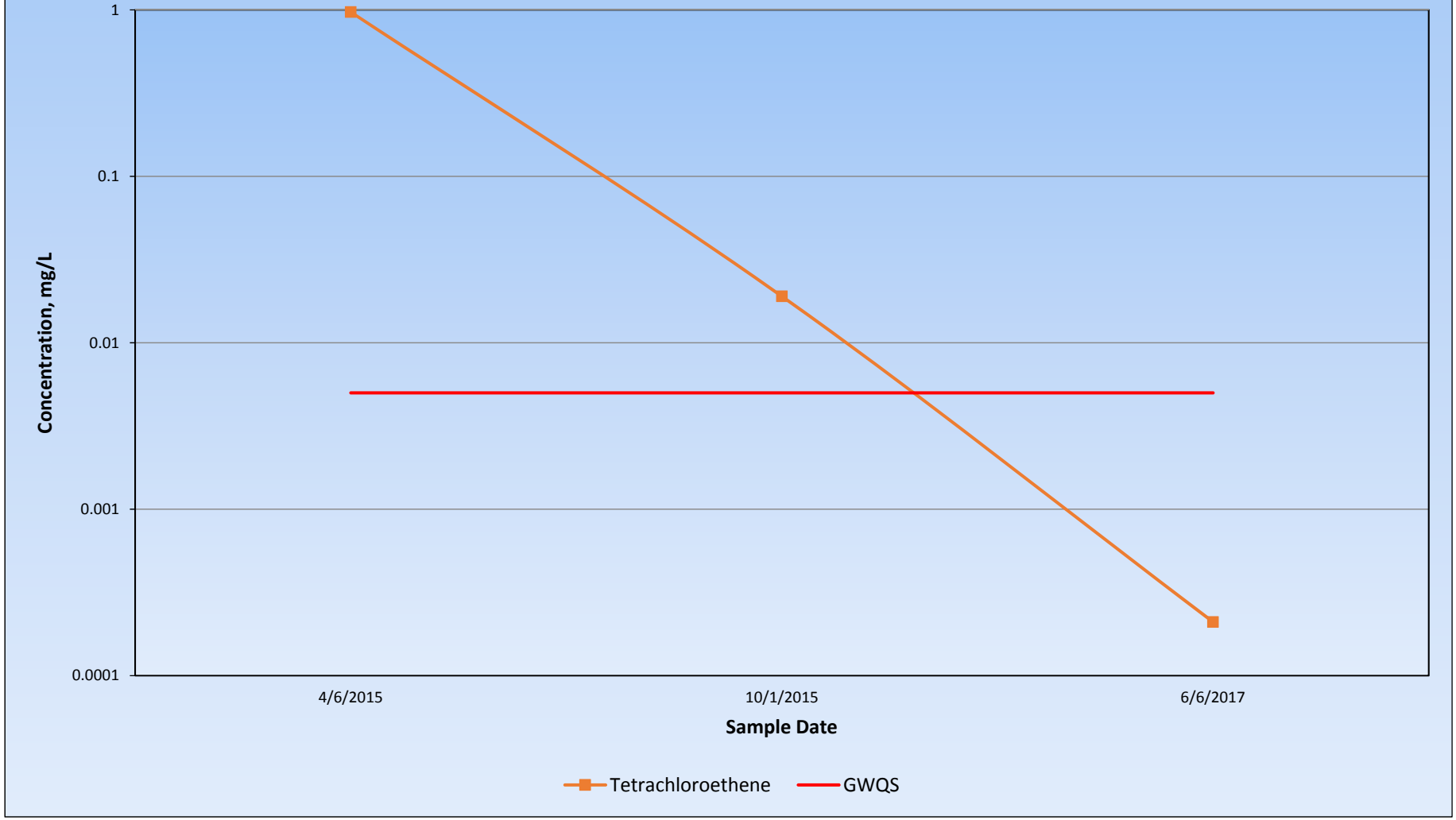
3021 Orchard Park Road Site
Groundwater Monitoring Report



ATTACHMENT 3-3

TETRACHLOROETHENE (PCE) CONCENTRATION vs. TIME

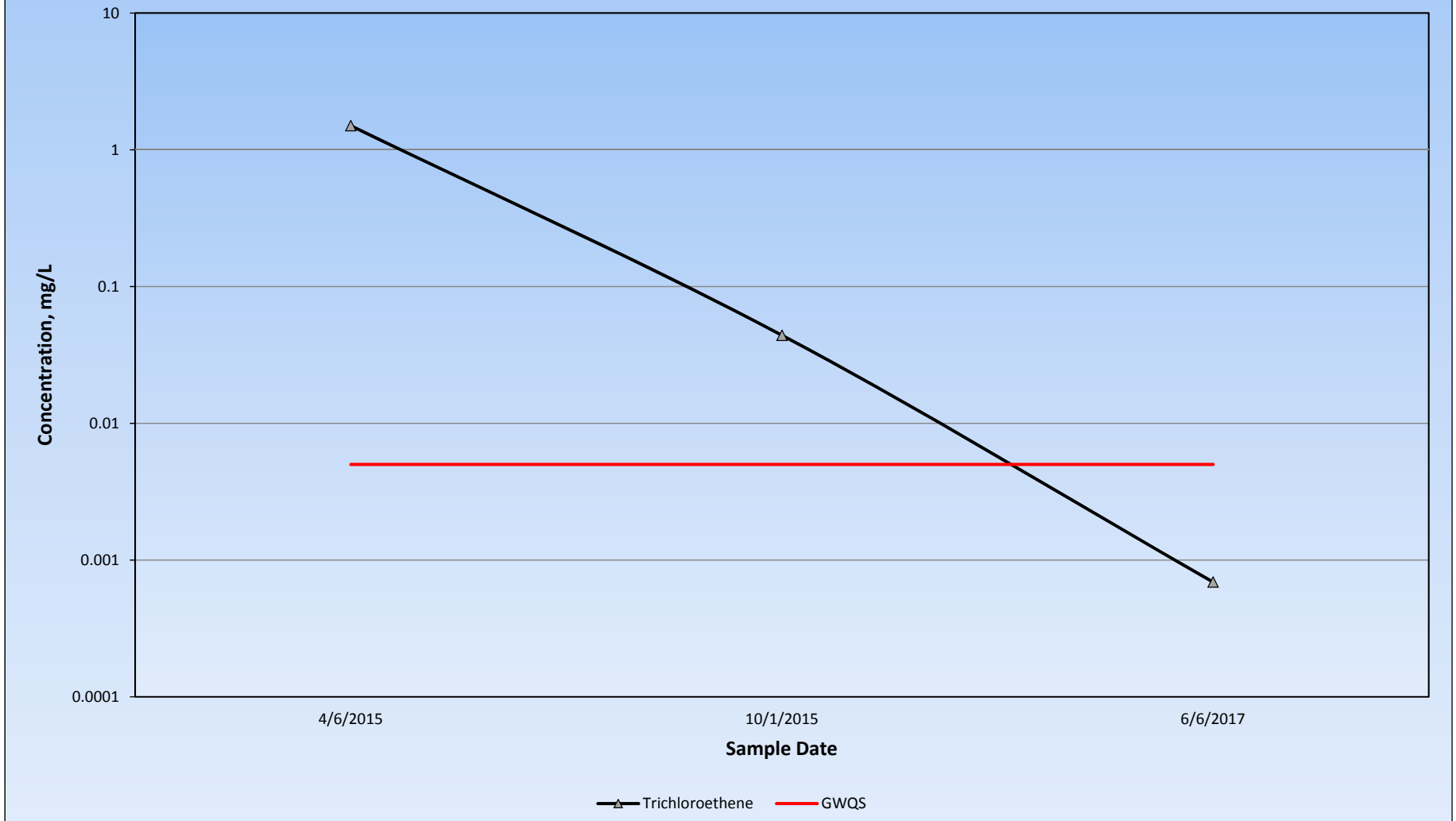
3021 Orchard Park Road Site
Groundwater Monitoring Report



ATTACHMENT 3-4

TRICHLOROETHENE (TCE) CONCENTRATION vs. TIME

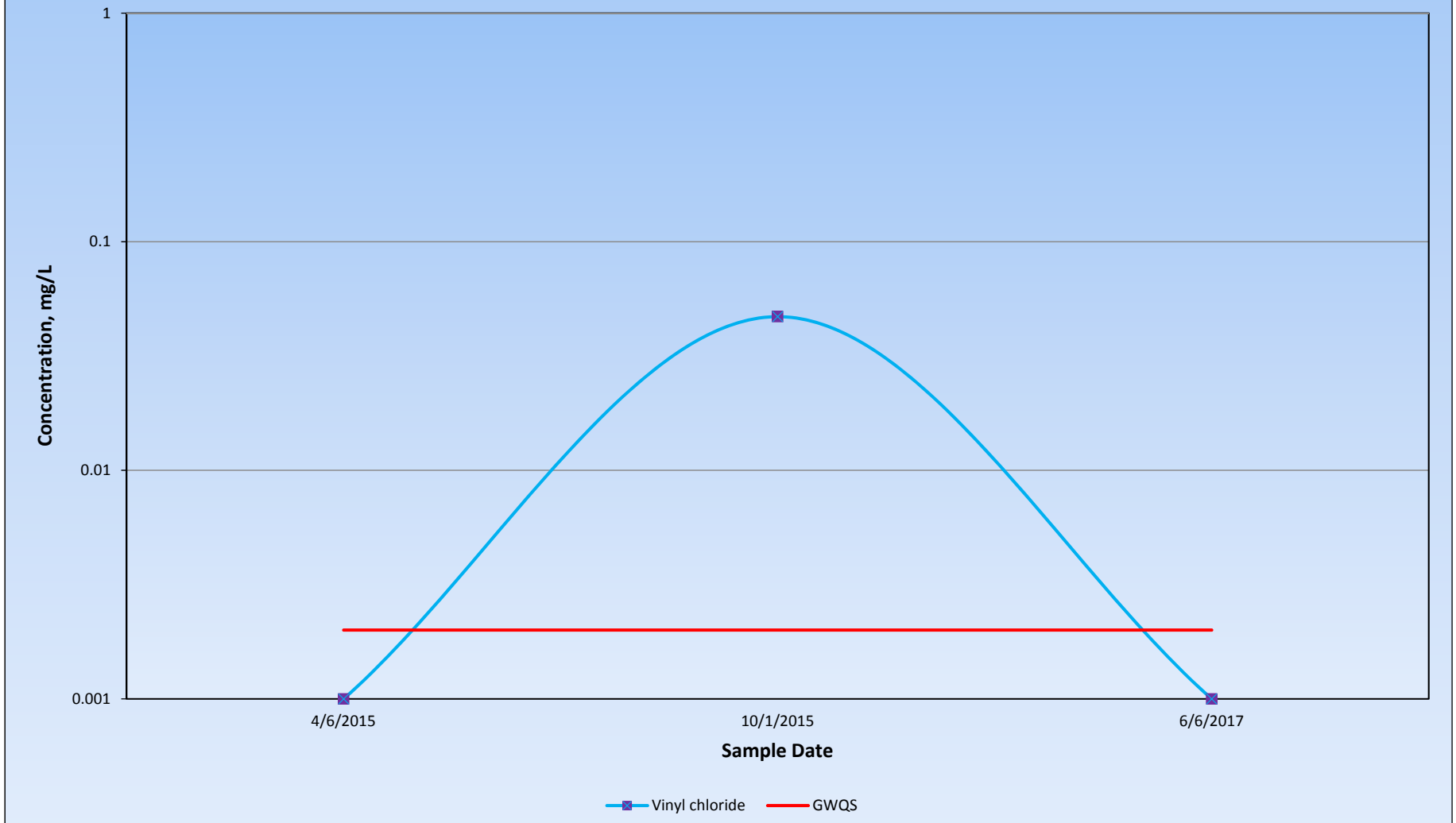
3021 Orchard Park Road Site
Groundwater Monitoring Report



ATTACHMENT 3-5

VINYL CHLORIDE (VC) CONCENTRATION vs. TIME

3021 Orchard Park Road Site
Groundwater Monitoring Report



APPENDIX D

INTRUSIVE ACTIVITY DOCUMENTATION

Bryan C. Hann

From: Brian Hanaka <brianh@modern-corp.com>
Sent: Monday, January 11, 2016 1:45 PM
To: Bryan C. Hann
Subject: 3021 OP

Bryan

The latest waste application from the subject site is approved, M16-2869. Please let me know when you plan on shipping. Thanks

Brian R. Hanaka
Account Executive, LEED WasteCap AP
Modern Disposal Services
PO Box 209
Model City, New York 14107
800-662-0012 ext 269
Direct:716-405-1269
Cell: 716.417.9086, **Fax: 716-827-1796**
brianh@modern-corp.com
Website; www.moderncorporation.com
Please contact customer service at cs@modern-corp.com or call 800-330-7107 for all your scheduling needs.
***Any and all quotations presented via email unless otherwise noted are acceptable for a period of 60 days.**

Bryan C. Hann

From: Bryan C. Hann
Sent: Friday, September 30, 2016 2:25 PM
To: 'Brian Hanaka'
Subject: RE: 3021 OP

The soil requested for disposal is from the same footprint and the previously submitted analysis for approval M16-2869 is representative of that material.

Bryan C. Hann
Project Manager
bhann@turnkeyllc.com

TurnKey Environmental Restoration, LLC
www.benchmarkturnkey.com

Strong Advocates | Effective Solutions | Integrated Implementation

---

From: Brian Hanaka [mailto:brianh@modern-corp.com]
Sent: Friday, September 30, 2016 2:13 PM
To: Bryan C. Hann <BHann@turnkeyllc.com>
Subject: RE: 3021 OP

Brynan

Please confirm it is the same source and in the same footprint and analysis submitted for approval M16-2869 is representative of this material as well.

Brian R. Hanaka
Account Executive, LEED WasteCap AP
Modern Disposal Services, Inc.
716-417-9086 Cellular
716-427-5335 Buffalo NY Offce
716-827-1796 Facsimile
Please contact customer service at cs@modern-corp.com or call 800-330-7107 for all your scheduling needs.
brianh@modern-corp.com
Website; www.moderncorporation.com
Any and all representations of rates are not official until a fully executed written quotation is submitted and an agreement is executed by both parties.
Please note new contact numbers. Thanks

From: Bryan C. Hann [mailto:BHann@turnkeyllc.com]
Sent: Friday, September 30, 2016 2:10 PM
To: Brian Hanaka
Subject: RE: 3021 OP

Brian,

I just received word that my Client that owns 3021 Orchard Park Road is expanding into the final available space. As such, they will be generating roughly 1 truck load of soil during utility installation work. Can this material be manifested to Modern under profile M16-2869?

Please advise.
Thank you.

Bryan C. Hann
Project Manager
bhann@turnkeyllc.com

TurnKey Environmental Restoration, LLC
www.benchmarkturnkey.com

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---

From: Brian Hanaka [mailto:brianh@modern-corp.com]
Sent: Monday, January 11, 2016 1:45 PM
To: Bryan C. Hann <BHann@turnkeyllc.com>
Subject: 3021 OP

Bryan

The latest waste application from the subject site is approved, M16-2869. Please let me know when you plan on shipping. Thanks

Brian R. Hanaka
Account Executive, LEED WasteCap AP
Modern Disposal Services
PO Box 209
Model City, New York 14107
800-662-0012 ext 269
Direct:716-405-1269
Cell: 716.417.9086, **Fax: 716-827-1796**
brianh@modern-corp.com
Website; www.moderncorporation.com
Please contact customer service at cs@modern-corp.com or call 800-330-7107 for all your scheduling needs.
***Any and all quotations presented via email unless otherwise noted are acceptable for a period of 60 days.**

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Contracts: Nothing in this message shall be construed as legally binding upon Benchmark or TurnKey.
Professional Opinions: Views expressed in this message may only be relied upon as professional opinion if and when provided by principals of the Companies to authorized representatives of the organization with which we have an active client-engineer relationship and when directly pertaining to a binding contract scope of work.

Bryan C. Hann

From: Brian Hanaka <brianh@modern-corp.com>
Sent: Tuesday, October 04, 2016 10:45 AM
To: Bryan C. Hann
Subject: RE: 3021 OP

No letter just make sure approval is noted.

Sent from my Verizon Wireless 4G LTE Droid
On Oct 4, 2016 10:40 AM, "Bryan C. Hann" <BHann@turnkeyllc.com> wrote:

> Thank you.
>
> Will I be getting a letter confirming acceptance under approval M16-2869?
>
> **Bryan C. Hann**
>
> *Project Manager*
>
> bhann@turnkeyllc.com
>
> TurnKey Environmental Restoration, LLC
>
> www.benchmarkturnkey.com
>
> Strong Advocates | Effective Solutions | Integrated Implementation
>
> **From:** Brian Hanaka [mailto:brianh@modern-corp.com]
> **Sent:** Tuesday, October 04, 2016 10:28 AM
> **To:** Bryan C. Hann <BHann@turnkeyllc.com>
> **Subject:** RE: 3021 OP
>
> All set!

Sent from my Verizon Wireless 4G LTE Droid

On Oct 4, 2016 9:25 AM, "Bryan C. Hann" <BHann@turnkeyllc.com> wrote:

Great. Thank you.

Bryan C. Hann

Project Manager

bhann@turnkeyllc.com

TurnKey Environmental Restoration, LLC

www.benchmarkturnkey.com

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From: Brian Hanaka [mailto:brianh@modern-corp.com]
Sent: Tuesday, October 04, 2016 8:36 AM
To: Bryan C. Hann <BHann@turnkeyllc.com>
Subject: RE: 3021 OP

Bryan we are all set. Just have to make sure approval is still open, my guy gets in at 9. So in a few minutes I will make sure if you show up there will not be any delays.

Brian R. Hanaka

Account Executive, LEED WasteCap AP

Modern Disposal Services, Inc.

716-417-9086 Cellular

716-427-5335 Buffalo NY Offce

716-827-1796 Facsimile

Please contact customer service at cs@modern-corp.com or call 800-330-7107 for all your scheduling needs.

brianh@modern-corp.com

Website; www.moderncorporation.com

Any and all representations of rates are not official until a fully executed written quotation is submitted and an agreement is executed by both parties.

Please note new contact numbers. Thanks

From: Bryan C. Hann [mailto:BHann@turnkeyllc.com]
Sent: Monday, October 03, 2016 6:53 PM
To: Brian Hanaka
Subject: RE: 3021 OP

Brian,

Are you preparing an approval for the additional soil or do you need something more from me?

Please advise.

Thank you.

Bryan C. Hann

Project Manager

bhann@turnkeyllc.com

TurnKey Environmental Restoration, LLC

www.benchmarkturnkey.com

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From: Brian Hanaka [mailto:brianh@modern-corp.com]
Sent: Friday, September 30, 2016 2:13 PM
To: Bryan C. Hann <BHann@turnkeyllc.com>
Subject: RE: 3021 OP

Brynan

Please confirm it is the same source and in the same footprint and analysis submitted for approval M16-2869 is representative of this material as well.

Brian R. Hanaka

Account Executive, LEED WasteCap AP

Modern Disposal Services, Inc.

716-417-9086 Cellular

716-427-5335 Buffalo NY Offce

716-827-1796 Facsimile

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brianh@modern-corp.com

Website; www.moderncorporation.com

Any and all representations of rates are not official until a fully executed written quotation is submitted and an agreement is executed by both parties.

Please note new contact numbers. Thanks

From: Bryan C. Hann [mailto:BHann@turnkeyllc.com]
Sent: Friday, September 30, 2016 2:10 PM
To: Brian Hanaka
Subject: RE: 3021 OP

Brian,

I just received word that my Client that owns 3021 Orchard Park Road is expanding into the final available space. As such, they will be generating roughly 1 truck load of soil during utility installation work. Can this material be manifested to Modern under profile M16-2869?

Please advise.

Thank you.

Bryan C. Hann

Project Manager

bhann@turnkeyllc.com

TurnKey Environmental Restoration, LLC

www.benchmarkturnkey.com

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From: Brian Hanaka [mailto:brianh@modern-corp.com]
Sent: Monday, January 11, 2016 1:45 PM
To: Bryan C. Hann <BHann@turnkeyllc.com>
Subject: 3021 OP

Bryan

The latest waste application from the subject site is approved, M16-2869. Please let me know when you plan on shipping. Thanks

Brian R. Hanaka

Account Executive, LEED WasteCap AP

Modern Disposal Services

PO Box 209

Model City, New York 14107

800-662-0012 ext 269

Direct:716-405-1269

Cell: 716.417.9086, **Fax: 716-827-1796**

brianh@modern-corp.com

Website; www.moderncorporation.com

Please contact customer service at

DISCLAIMERS:

Confidentiality Notice: ...

Bryan C. Hann

From: Brian Hanaka <brianh@modern-corp.com>
Sent: Monday, January 11, 2016 1:45 PM
To: Bryan C. Hann
Subject: 3021 OP

Bryan

The latest waste application from the subject site is approved, M16-2869. Please let me know when you plan on shipping. Thanks

Brian R. Hanaka
Account Executive, LEED WasteCap AP
Modern Disposal Services
PO Box 209
Model City, New York 14107
800-662-0012 ext 269
Direct:716-405-1269
Cell: 716.417.9086, **Fax:** 716-827-1796
brianh@modern-corp.com
Website; www.moderncorporation.com
Please contact customer service at cs@modern-corp.com or call 800-330-7107 for all your scheduling needs.
***Any and all quotations presented via email unless otherwise noted are acceptable for a period of 60 days.**

2/9/16
BM on site (11-1130)
Plumber contractor excavating & loading sub floor spoils into staged dump truck (Russo)
Excavation, to wheel barrow, to skid steer, to DT.
Photos taken
Manifests signed.

9/28/16
BM on site, met w/ Paul Hogan (owner)
Plumber contractor excavating & loading sub floor spoils to stage stockpile adjacent to Vault on poly sheeting
No visual/olfactory evidence of impact
No photos - interior walls going up, not enough space for clear photos

TurnKey Environmental Restoration, LLC

Sheet _____ of _____
Project No. _____
By _____ Date _____
Checked _____ Date _____
Subject _____

10/5/16 3021 Of Road

BM on site 8:45
Plumbing contractor completed intrusive work
Stockpiled spoils on and covered w/ poly sheeting
Backfilled w/ washed No 1 stone

Plumber - Danny
will leave as-built dwg when completed for BM

No odors, No visual
Spoils were mostly gravel
Excavations: 18" W x 15' Deep

BM to call Russo for pick-up / disposal of spoils
BM will provide manifest.

BM off site 905

Russo will pick up material tomorrow 10/6

10/6/16

BM on site @ 8:45 Am
Russo had spoils loaded already - ± 10 tons
TOOK photos
Provided driver manifest for Modern LF
Notified Paul Hogan via text
BM off site @ 915 Am

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				NYS-2269

GENERATOR

5. Generator's Name and Mailing Address

Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Building Area Soil	1	D		T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Bryan C. Hahn — Signature — Month: 2 — Day: 4 — Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

GENERATOR'S/SHIPPER'S INITIAL COPY

TRUCK # 114

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			716-856-0599	7116-2869

GENERATOR

5. Generator's Name and Mailing Address
2021 Orchard Park Rd, LLC
162 Colgate Ave
Buffalo NY 14222
Generator's Phone:

Generator's Site Address (if different than mailing address)
2021 2041 Orchard Park Rd.
Orchard Park, NY 14127

6. Transporter 1 Company Name: Russo Development
U.S. EPA ID Number: 9A-775

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: Modern Landfill
U.S. EPA ID Number
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Building Area Soil	1	DT	N10	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

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Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Brian C. Hunt AS AGENT FOR GENERATOR | Signature: Brian C. Hunt | Month: 10 | Day: 6 | Year: 16

Transporter 2 Printed/Typed Name: JOSHUA KASH JR | Signature | Month: 10 | Day: 6 | Year: 16

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S/SHIPPER'S INITIAL COPY

Profile in List: M16-2869
Site ID: ML

Modern Landfill

Profile Report

Transactions from 01/01/2016 through 10/12/2016
Inbound and Outbound Tickets
Third Party and Intercompany Customers
Recycle and Disposal Material
Full Details

Ticket	Date	Truck	In / Out	Bill. Units	CUBICYARDS	TONS	Est TONS
M16-2869 - 3021- 3041 ORCHARD PARK RD.LLC - TURNKEY							
1002525846	2/9/2016	RUSSO-20	I	10.62 TN	0.00	10.62	0.00
1002526589	2/12/2016	RUSSO-116	I	4.52 TN	0.00	4.52	0.00
1002587725	10/6/2016	RUSSO-114	I	9.05 TN	0.00	9.05	0.00
M16-2869 - 3021- 3041 ORCHARD PARK RD.LLC - T					0.00	24.19	0.00
3 tickets and 3 transactions							
Report Grand Totals					0.00	24.19	0.00
3 tickets and 3 transactions							

End of Report

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

Ticket: 1002587725
Date: 10/6/2016
Time: 10:29:47 - 10:34:33
Scale

******** Reprinted Ticket ********

Gross: 42300 POU In Scale INBOUN
Tare: 24200 POU P.T.
Net: 18100 POU

Truck: RUSSO-114
Customer: 0280330002/BENCHMARK ENVIRON
Carrier: russ-001/Russo

Truck Type: TA
Route: BROKER/SUB OUT VARIOUS BRC
Profile: M16-2869/3021- 3041 ORCHARD PAI

Generator: 0250310002/MODERN DISPOSAL ROI
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
146001/Orchard Park	DC DEC Approved Waste	9.05	TON

Driver: _____

Weighmaster: Kevin Vendetta

MODERN Corporation

1445 Pletcher Road
Model City, NY 14107
(716) 754-8226

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Date: 10/6/2016
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Generator: 0250310002/MODERN DISPOSAL ROI
Service Site:
Comment:

Origin	Materials & Services	Quantity	Unit
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