Periodic Review Report

Former Brainerd Manufacturing Facility
East Rochester, New York
NYSDEC Site No. V00519-8

March 2021 0040-002-400

Prepared For:

Despatch Industries, Inc.

Prepared By:

BENCHMARK
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PERIODIC REVIEW REPORT

FORMER BRAINERD MANUFACTURING FACILITY SITE
(VOLUNTARY CLEANUP SITE NO. V00519-8)

EAST ROCHESTER, NEW YORK

March 2021 0040-002-400

Prepared for:

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Prepared By:

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PERIODIC REVIEW REPORT

Former Brainerd Manufacturing Facility Site

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1.0 INTRODUCTION

Benchmark Environmental Engineering and Science, PLLC (Benchmark) has prepared this Periodic Review Report (PRR), on behalf of Despatch Industries, Inc. (Despatch) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program (VCP) Site No. V00519-8, located in East Rochester, Monroe County, New York (Site; see Figure 1), commonly referred to as the Former Brainerd Manufacturing Facility site ("Site").

This PRR has been prepared for the Site in accordance with NYSDEC DER-10/*Technical Guidance for Site Investigation and Remediation* (May 3, 2010). The NYSDEC's Institutional and Engineering Controls (IC/EC) Certification Form has been completed for the Site (see Appendix A).

This PRR and the associated inspections form has been completed for the post-remedial activities at the Site for the period from February 28, 2020 to February 28, 2021.

1.1 Site Background

Despatch Industries, Inc. entered into Voluntary Cleanup Agreement (VCA) Site # V00519-8 with the New York State Department of Environmental Conservation (NYSDEC) in February 2002, to investigate and remediate a 3.3-acre property consisting of two parcels located in East Rochester, Monroe County, New York. The property was remediated to restricted commercial use and has been vacant and unoccupied except for periodic maintenance by the building owner until October 2019. On March 18, 2016, 107/115 North Washington Street, LLC purchased the Site from Despatch. Despatch remains responsible for environmental obligations at the Site as they pertain to the subject VCP, with access to the Site provided by the new owner to fulfill those obligations. In Spring through Fall of 2020, the building was remodeled by 107/115 North Washington Street, LLC and is currently used as a self-storage building; consistent with Institutional Control land-use restrictions.

The Site is located in the County of Monroe, New York and is comprised of two parcels: an approximate 3.0-acre parcel identified as 115 North Washington Street on the East Rochester Tax Map #139.69-1-17 improved with a 73,400 square foot self-storage building; and an approximately 0.3-acre parcel, comprised of an asphalt parking lot (Tax Map#139.69-1-19). The Site is bounded by residential properties, a Rochester Gas and Electric (RG&E) substation and a pre-cast concrete product manufacturing building owned by E.J. Delmonte

to the north, Monroe Street, Rochester Lumber Company and A.J. Interiors to the south, North Washington Street to the east, and light industrial properties, railway and green space to the west (see Figure 2).

The Site was operated as an industrial facility for nearly 100 years prior to relocation of Brainerd's operations in 1998. Historic uses of the Site included the manufacture of hardware and decorative metal products using various metal finishing processes. The property was subsequently operated under lease by an office furniture reconditioning and sales company beginning in 2004, however that business terminated its lease and left the Site in fall of 2017.

In May 2002, Despatch Industries, Inc. signed a voluntary agreement with the New York State Department of Environmental Conservation (NYSDEC) to investigate and cleanup the Site. Environmental site investigations were conducted by Benchmark which identified the following:

- The uppermost water bearing zone consists of a poorly graded sand and is contaminated with chlorinated volatile organic compounds (cVOCs) suspected to originate from former plating operations and released via a sump interior to the Site building (the sump has been sealed). The primary cVOCs are perchloroethylene (PCE), trichloroethene (TCE), and to a lesser degree 1,1,1-trichloroethane. A narrow groundwater plume developed from the area of the source and traveled to the northwest.
- A localized area (approximately 20 feet by 25 feet) of the surficial soils along the western portion of the Site were contaminated with metals (i.e., lead, barium).

1.2 Remedial History

After acceptance into the VCP in May 2002, there were two interim remedial measures (IRMs) undertaken for this project: 1) groundwater pumping, pretreatment, and conveyance to the Monroe County Sewer System; and 2) installation of an on-site subslab depressurization system. A more detailed discussion of these IRMs is provided below.

1.2.1 Groundwater Pumping and Pretreatment

Site investigation data supported the need for an IRM to address groundwater impacts at the Site and to cut-off contaminated groundwater from further impacts off-site. The IRM was constructed during the period of June through August 2004. The IRM groundwater collection and pretreatment system involved recovery of contaminated groundwater from a

pumping well with concurrent on-site batch treatment of the recovered groundwater via a low-profile air stripper with discharge of the pretreated water to the Monroe County Department of Environmental Services. Beginning in August 2004, cVOC-impacted groundwater was collected by pumping well PW-1 (PW-1R replaced PW-1 in this capacity in November 2011[1]) on a nearly continuous basis through mid-2018 except for maintenance shutdowns and the issue with the pumping well PW-1. From August 2004 through May 2018, approximately 31,228,652 gallons of groundwater were collected, pre-treated, and discharged to the Monroe County Sewer System under Sewer Use Permit 883. Treated groundwater (effluent) from the air stripper was tested monthly for PCE, toluene, and TCE and compared to the permitted discharge limit (PDL) of <2.13 mg/L. All effluent samples were below the PDL. The system was temporarily shut down in May of 2018 and remained shut down until April of 2020 to evaluate the efficacy of subsequent remedial measures. The pretreatment system was decommissioned April 2020 upon NYSDEC approval, as further discussed herein. The groundwater isopotential map for December 2020 water level measurements is shown on Figure 3.

1.2.2 Sub-Slab Depressurization

The second IRM involved installation of a sub-slab depressurization (SSD) system on a design-build basis with post-installation performance testing to confirm adequate system performance. Initial communication testing of the sub-slab was performed by Benchmark personnel to evaluate the number of extraction points and type of exhaust fans required to optimize the systems performance under the specific Site conditions. The SSD system was installed by Mitigation Tech, a Rochester, New York based vapor control (and radon) experienced contractor. The system consists of 28 extraction points (EP-1 through EP-28) and six RadonAway GP Series 501 fans distributed strategically throughout the building under the agreed design criteria established with the NYSDEC and NYSDOH. Six roof mounted fans are fitted with interior manometers. The system began operation in November 2010 and has operated continuously since that time except for temporary shutdowns in February 2018 to March 2018 to replace two exhaust fans which were damaged during a loss of heat to the

[1] The PW-1 pump became lodged in the well during routine pump maintenance. Several attempts were made to recover the pump and repair the well. However, it became apparent that sand had intruded the well likely through the well screen suggesting that the well could not be repaired effectively.

building, causing a sprinkler line to rupture and resulting in the flooding of the floor near some of the ASD extraction points, and December 2019 to January 2020 due to electrical disconnections associated with the interior building renovation work.

1.2.3 Final Remedial Measure

The Site was remediated in accordance with the preferred remedy and as approved by the NYSDEC in the RAWP dated December 2011. The following are the components of the selected remedy:

1. Construction and maintenance of a soil cover system consisting of a demarcation layer followed by a minimum of 12 inches of NYSDOT-approved type 2 backfill material to prevent human exposure to contaminated soil/fill remaining at the site.
2. Continued operation of a previously constructed IRM groundwater pump and treat system in which groundwater is transferred from a pumping well (PW-1R) to an influent storage tank. The untreated groundwater is then pumped into a low-profile air stripper for treatment and subsequent discharge to the sanitary sewer.
3. Continued operation of a previously constructed IRM sub-slab depressurization system comprised of a series of fans mounted to sub-slab piping to prevent migration of VOC-impacted vapors into the building.
4. Enhancement of the IRM groundwater pump and treat system with a second pumping well (PW-2) and subsequent addition of sodium bisulfite (SBS) after air stripping to reduce the dissolved oxygen concentration. Pretreated groundwater was then either discharged to the Monroe County sewer system or further treated by the addition of hydrogen gas via the groundwater Pressurized Remediation Optimizer Low Pressure system (gPRO® LP system) for reinjection of hydrogen gas upgradient of the source area. The hydrogenated water flowed under gravity to the three upgradient reinjection wells (RW-1, RW-2, and RW-3) located along Monroe Street (Figure 3). The system was operated and monitored on a continuous basis beginning in early 2012 until 2016. It was shut down in mid-2016 due to clogging of the reinjection wells.
5. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the site.
6. Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.
7. Periodic certification of the institutional and engineering controls listed above.

1.2.4 Corrective Measures

As per the SMP, if any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Plan will be submitted to the NYSDEC for approval.

Due to gPRO injection well failure, a Corrective Action Plan was submitted and approved by the Department in April 2017. The Corrective Action Plan identified the scope of planned corrective actions and the method and means by which it would be completed. The planned corrective action chosen for the Site involved the remediation of chlorinated VOCs in groundwater in the vicinity of monitoring wells MW-6 and MW-5 and pumping well PW-1R by creating a continuous *in situ* passive barrier system with Regenesis' PlumeStop® liquid activated carbon. Groundwater flows through the barrier system while at the same time the barrier extracts and destroys contaminants from groundwater.

Injection of the liquid activated carbon occurred in October 2017. Details of the injection program were described in correspondence to the Department dated May 14, 2018. Post injection groundwater samples were collected from monitoring wells MW-5, MW-6 and pumping well PW-1R in November 2017, February 2018, June 2018, August 2018 (MW-6 only) and October 2018 (MW-6 only).

Benchmark performed additional corrective measure in the source area based on the post injection groundwater samples results collected between November 2017 and October 2018. On January 11 and 14, 2019, Benchmark injected a total of 400 pounds (equivalent to 48 gallons) of PlumeStop mixed with water directly into monitoring well MW-6. Over a 13-hour period between these two days, a total of approximately 230 gallons of PlumeStop/water was injected. Injection over two days was necessary because of daylighting of the PlumeStop mixture. Benchmark redeveloped well MW-6 on February 8 and collected a sampled from MW-6 on February 22 for analysis of Target Compound List (TCL) volatile organic compounds (VOCs).

Routine post injection groundwater samples continued to be collected from monitoring wells MW-4, MW-5, MW-6 and pumping well PW-1R in July 2019, and November 2019 (except PW-1R). Source area well PW-1R was not sampled on November 25 due to a temporary power interruption associated with interior renovation activities; therefore, Benchmark returned on December 11 to resample the well via a bailer in lieu of running the well pump. MW-5 was also resampled at that time due to suspected anomalous data from the November 25 sample.

On October 22, 2019, Nothnagel Drilling, Inc. decommissioned the gPro groundwater treatment systems and three associated reinjection wells (grouted in place) located along Monroe Street (Figure 2).

Based upon the success of the PlumeStop the NYSDEC issued correspondence on April 7, 2020, approving decommissioning of the IRM pump and treat system with continued monitoring of wells MW-5, MW-6, and MW-12 for three additional semi-annual groundwater monitoring events and grouting the unused wells in place per NYSDEC CP-43 guidance.

From April 14 to April 22, 2020, Nothnagel Drilling, Inc. decommissioned and grouted in-place 16 unused pumping wells, observation wells, and monitoring wells associated with the IRM pump and treat system per NYSDEC CP-43 guidance (Figure 2). Appendix B provides well decommissioning logs.

April 23 to April 24, 2020 the pretreatment system equipment (i.e., day tank, air stripper, and pumps) was removed from the facility by Benchmark and all associated discharge piping was terminated. The Monroe County Sewer Use Permit 883 was terminated May 28, 2020.

1.3 Semi-Annual Groundwater Monitoring

Benchmark completed the first and second of three above-referenced semi-annual groundwater monitoring events at the Site on June 11, 2020 and December 1, 2020. Groundwater sampling results are discussed in Section 3.1.2. Benchmark plans to perform the final round of semi-annual groundwater monitoring in June 2021. Groundwater sampling results are discussed in Section 3.1.2.

1.4 Compliance and Recommendations

At the time of the Site inspection on February 4, 2021, the Site remedial components were compliant with the Department's approved SMP. A photo log is included in Appendix C.

2.0 SITE OVERVIEW

The Site is located in East Rochester County of Monroe, New York and is identified as 115 North Washington Street (SBL Nos. 139.69-1-17 and 139.69-1-19) on the Monroe County Tax Map. An open gravel lot comprises the western side of the larger parcel, with the former manufacturing building situated on the eastern side of the parcel adjacent to North Washington Street. Surrounding property is mixed use, primarily characterized by light industrial and railroad properties, and residential properties. The Site is an approximately 3.3-acre area bounded by residential properties to the north/northeast; a Rochester Gas and Electric (RG&E) substation and a pre-cast concrete product manufacturing building owned by E.J. Delmonte to the northwest; Monroe Street to the south; North Washington Street to the east; and light industrial properties, railway, and green space to the west (see Figure 2).

In May 2002, Despatch Industries, Inc. signed a voluntary agreement with the NYSDEC to investigate and cleanup the Site (DEC Site No. VCP 00519-8). The investigations and IRMs were conducted through New York State's VCP (Index #B8-0609-02-02). Remedial activities were completed in 2013. The FER and SMP for the Site were approved by the Department in December 2013. The Release and Covenant Not to Sue was issued for the Site on November 24, 2014. On March 18, 2016, 107/115 North Washington Street, LLC purchased the Site from Despatch. Despatch remains responsible for environmental obligations at the Site as they pertain to the subject VCP, with access to the Site provided by the new owner to fulfill those obligations.

3.0 SITE MANAGEMENT PLAN

A SMP was prepared for the Site and approved by the Department in December 2013. The SMP includes an Operation, Monitoring and Maintenance (OM&M) Plan, a Soil/Fill Management Plan (SFMP), and a copy of the Environmental Easements. A brief description of the components of the SMP is presented below.

3.1 Operation, Monitoring and Maintenance Plan

The OM&M Plan consists of three major components: including the Active Sub-slab Depressurization System (ASD); the groundwater recovery, treatment, and reinjection system; and the Annual Inspection & Certification Program.

3.1.1 Active Sub-slab Depressurization System

An ASD system was installed within the existing building consisting of 28 extraction points (EP-1 through EP-28) and six RadonAway GP Series 501 fans distributed strategically throughout the building under the design criteria established with the NYSDEC and NYSDOH. Six roof mounted fans outfitted with interior manometers are visually inspected on a monthly basis. The system began operation in November 2010 and has operated continuously since that time except for temporary shutdowns in February 2018 to March 2018 to replace two exhaust fans which were damaged during a loss of heat to the building, causing a sprinkler line to rupture and resulting in the flooding of the floor near some of the ASD extraction points, and December 2019 to January 2020 due to electrical disconnections associated with the interior building renovation work. As required by the Department-approved SMP, the ASD system must: (1) be operated continuously to maintain a negative pressure (below ambient atmospheric) under the floor slab; (2) be visually inspected monthly to verify proper operation; and (3) annually inspected and certified that the system is performing properly and remains an effective engineering control (EC). The interior ASD manometers are inspected on a monthly basis by management staff but a record is not maintained. Benchmark has instructed staff to keep a log of the manometer readings moving forward.

During the annual Site Inspection performed on February 4, 2021, the inspector verified that the ASD system was operating properly, as indicated by the readings on the vacuum gauges. At the time of the Site inspection ASD system Manometer 6 was inaccessible

as it was locked inside an occupied storage unit. In Spring 2021, a redundant manometer will be installed on the same extraction leg in a more readily accessible location. A summary of the ASD periodic inspection readings for February 2021 are included in Appendix D.

3.1.2 Groundwater Collection, Treatment, Discharge or Reinjection and Monitoring Data

A letter from the NYSDEC, dated April 7, 2020, approved decommissioning of the IRM pump and treat system with continued monitoring of wells MW-5, MW-6, and MW-12 for three additional semi-annual groundwater monitoring events. Benchmark completed the first and second of three semi-annual groundwater monitoring events at the Site on June 11, 2020 and December 1, 2020. The final round of semi-annual groundwater monitoring will be performed in June 2021.

As indicated on Table 1, tetrachloroethene (PCE) and trichloroethene (TCE) were not detected during the most recent event at source area well MW-5 and detected at estimated concentrations well below their respective GWQSs at source area well MW-6. The total cVOC result for MW-5 during the most recent event is non-detect, consistent with November 2019 results. A minor increase of total cVOCs was observed in MW-6; however, concentrations remain well below historic pre-injection levels. The December 2020 PCE and cis-1,2 DCE concentrations in well MW-12 (36 ug/L and 5.3 ug/L, respectively) are consistent with the June 2020 results and remain below November 2019 and prior results.

Charts illustrating total chlorinated VOC (cVOC) concentrations vs time from groundwater monitoring wells MW-5, MW-6, and MW-12 are included in Appendix E.

Analytical data for the post injection groundwater sampling results not previously submitted to the NYSDEC is contained in Appendix F.

3.1.3 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines the requirements for the Site, to certify and attest that the institutional controls and/or engineering controls employed at the Site are unchanged from the previous certification. The Annual Certification will primarily consist of an annual Site Inspection to complete the NYSDEC's IC/EC Certification Form. The annual inspection was performed by Mr. Thomas Forbes, P.E. of Benchmark Environmental Engineering & Science, PLLC on February 4, 2021.

At the time of the annual inspection, the property was utilized as a self-storage facility. No observable indication of ground-intrusive activities 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 photolog of the Site inspection, including ASD manometers, is included in Appendix C.

3.2 Soil/Fill Management Plan

A SFMP was included in the approved-SMP for the Site. The SFMP provides guidelines for the management of soil and fill material during any future intrusive actives.

No intrusive activities requiring management of on-Site soil or fill material; or the placement of backfill materials occurred during the monitoring period.

3.3 Engineering and Institutional Control Requirements and Compliance

As detailed in the Environmental Easements, several IC/ECs need to be maintained as a requirement of the BCAs for the Site.

3.3.1 Institutional Controls

- Groundwater-Use Restriction – the use of groundwater for potable and non-potable purposes is prohibited; and
- Land-Use Restriction: The controlled property may be used for commercial and/or industrial use; and
- Implementation of the SMP including the OM&M Plan and SFMP.

3.3.2 Engineering Controls

- Vapor Mitigation – ASD System has been operated continuously with exception of a brief shutdown from February 2018 to March 2018 to replace two exhaust fans which were damaged during a loss of heat to the building, causing a sprinkler line to rupture and resulting in the flooding of the floor near some of the ASD extraction points, and from December 2019 to January 2020 due to building renovation work. During the annual Site inspection, Manometer 6 was inaccessible as it was locked inside an occupied storage unit. In Spring 2021, a redundant manometer will be installed on the same extraction leg in a more readily accessible location.

- Groundwater Collection and Pretreatment Systems – The groundwater collection and pretreatment systems were operated continuously with minimal interruption for maintenance since they were first installed in 2004. At the recommendation of the NYSDEC, the system was shut down in May 2018 and remained shut down until April 2020 to avoid removing any of the PlumeStop® amendment from the aquifer. A letter from the NYSDEC, dated April 7, 2020, approved decommissioning of the IRM pump and treat system with continued monitoring of wells MW-5, MW-6, and MW-12 for three additional semi-annual groundwater monitoring events. From April 23 to April 24, 2020, the pretreatment system equipment (i.e., day tank, air stripper, and pumps) was removed from the facility by Benchmark and all associated discharge piping was terminated. On May 28, 2020, the Monroe County Sewer Use Permit 883 was terminated.

- The gPRO reinjection system was shut down and decommissioned, with the PlumeStop® injection employed as a corrective measure for source area control. The gPRO groundwater treatment system and three reinjection wells (grouted in-place) located along Monroe Street were decommissioned on October 22, 2019.

- Groundwater Monitoring – Groundwater monitoring (12 events) was completed between July 2017 and December 2020. Benchmark plans to perform the final round of semi-annual groundwater monitoring in June 2021.

- Cover System – The cover system, including building foundations, concrete sidewalks, asphalt and gravel driveways and parking areas, and a nominal 25-foot long by 20-foot-wide engineered cover area are all being maintained in compliance with the SMP.

At the time of the February 4, 2021 site inspection, the Site was fully compliant with all institutional control requirements and all engineering controls (or NYSDEC-approved modifications thereto) as discussed above.

4.0 CONCLUSIONS AND RECOMMENDATIONS

As of the date of the most recent site inspection, the Site is fully compliant with the Institutional Controls including land-use restrictions, groundwater-use restrictions, and the soil/fill management plan component, and fully compliant with the Engineering Controls or approved modifications thereto. The following recommendations will be implemented with DEC approval:

- Termination of groundwater monitoring, following the final semi-annual June 2021 event, in accordance with Section 2.2.2.1 of the 2013 Site Management Plan (SMP), and submission of a brief summary report for decommissioning of the remaining and monitoring wells. This will require NYSDEC concurrence at the time of the June 2021 data submittal.
- Installation of a redundant Manometer 6 in a more readily accessible location.

5.0 DECLARATION/LIMITATION

Benchmark Environmental Engineering and Science, PLLC, personnel conducted the annual site inspection for Voluntary Cleanup Program Site No. V00519-8, East Rochester, New York, according to generally accepted practices. This report complied with the scope of work provided to Despatch Industries, Inc. by Benchmark Environmental Engineering and Science, PLLC.

This report has been prepared for the exclusive use of Despatch Industries, Inc. 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 Despatch Industries, Inc. Use of or reliance upon this report or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering and Science, PLLC.

TABLE

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Periodic Review Report
Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	MW-1 [6]							MW-2 [6]			MW-3 [6]				MW-4 [6]								
									Historic	Current						Historic Groundwater Sampling Events							Current	
		08/18/06	01/31/12	09/25/13	12/04/13	6/4/14	6/4/15	6/28/16	08/18/06	07/30/19	11/25/19	08/21/06	6/4/14	6/4/15	6/28/16	08/22/06	01/30/12	09/25/13	12/04/13	6/4/2014	6/4/2015	6/28/2016	07/23/19	11/25/19
TCL Volatile Organic Compounds (ug/L)																								
Acetone	**50**	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2	4.5 J	ND	ND
Bromodichloromethane	**5**	ND	ND	ND	ND	0.75	**11**	ND	ND	ND	ND	ND	1.4	1.4	1.2	ND	2.8	2.3	1.3	1.1	ND	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**7**	ND	ND	ND	ND	ND	**23**	ND	0.91 J	1.2	0.59 J	ND	7	6.3	4.7	0.86 J	**11**	**15**	**12**	6.5	1.2	1.3	3.2	6.5
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	**NR**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56 J	ND	ND	ND	ND	ND
Tetrachloroethene	**5**	3.1 J	**53**	**83**	**150**	**70**	**65**	ND	**8.2**	**11**	**10**	ND	2	3.5	2.6	**87**	**11**	**28**	**13**	**22**	**16**	**17**	**27**	**26**
Trichloroethene	**5**	0.78 J	**19**	**15**	**65**	**17**	**30**	0.91 J	**6.3**	2	1.9	**11**	2.5	3.2	3.1	**240**	**90**	**46**	**33**	**37**	**16**	**16**	**42**	**36**
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichlorethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.74 J	ND	ND	ND	2.6 J	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	3.9	72	98	215	87	95	0.9	15	13	11.9	11	4.5	6.7	5.7	327	101	74	46	59	32	33	69	62

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. MS/MSD collected at PW-1.
3. NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV), 6 NYCRR Part 703.
4. Sum of chlorinated VOCs means adding the concentrations of tetrachloroethene, trichloroethene, cis & trans-1,2-dichlorethene, and 1,1-dichloroethene.
5. Sampling occurred following 1/11/2019 injection of PlumeStop directly into well MW-6 and redevelopment on 2/8/19.
6. Well decommissioned April 2020.

Definitions:

J = Estimated value; result is less than the sample quantitation limit but greater than zero.
ND = parameter not detected above laboratory detection limit.
NR = parameter not regulated by 6NYCRR TOGS 1.1.1 Part 703
NA = not available; parameter not included on tabulated summary provided by NYSDEC.
N* = Indicates the spike or duplicate analysis is not within the quality control limits
"--" = Not analyzed

BOLD = Analytical result exceeds individual GWQS/GV; or potentially exceeds if the MDL is above the GWQS/GV.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Periodic Review Report
Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	MW-5																
		Historic Groundwater Sampling Events									Pre-Injection	Post-Injection						
		08/22/06	01/30/12	03/05/13	06/26/13	9/25/13	12/04/13	06/04/14	06/04/15	06/28/16	07/10/17	11/30/17	02/27/18	06/04/18	07/23/19	12/11/19	06/11/20	12/01/20
TCL Volatile Organic Compounds (ug/L)																		
Acetone	**50**	ND	ND	ND	ND	ND	3.4 J	3.3 J	ND	ND	7.3 J	**200**	**200**	**63 J**	ND	6.8 J	6.9 J	ND
Bromodichloromethane	**5**	ND	ND	0.51 J	ND	ND	ND	ND	ND	0.54 J	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**71 J**	**320**	45 J	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND
Chloroform	**7**	1.4 J	1.3	**18**	ND	ND	ND	ND	ND	0.98 J	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	**NR**	ND	ND	ND	ND	ND	ND	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND	0.51 J	0.71 J	ND	ND	ND	ND < 5.1	ND < 5.1	*ND < 5.1*	ND	ND	ND	ND
Tetrachloroethene	**5**	**1,600**	**2,800**	**590**	**400**	**150**	**110**	**50**	**40**	**530 D**	**14**	ND	ND	ND	ND	ND	0.41 J	ND
Trichloroethene	**5**	**1,400**	**1,500**	**260**	**240**	**59**	**52**	**23**	**20**	**330 D**	**8.5**	ND	ND	ND	ND	ND	0.56 J	ND
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	0.56 J	0.67 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichlorethene	**5**	0.80 J	0.95 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 9.0*	*ND < 9.0*	*ND < 9.0*	ND	ND	ND	ND
1,1,1-Trichloroethane	**5**	**11**	**6.3 J**	1.3	ND	ND	ND	ND	ND	1.5	ND	*ND < 8.2*	*ND < 8.2*	*ND < 8.2*	ND	ND	ND	ND
1,1,2-Trichloroethane	**1**	**1.5 J**	ND	ND	ND	ND	ND	ND	ND	0.57 J	ND	*ND < 2.3*	*ND < 2.3*	*ND < 2.3*	ND	ND	ND	ND
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	3,000	4,302	850	640	209	162	73	60	860	23	0	0	0	0	0	1	0

Notes:

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2. MS/MSD collected at PW-1.
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4. Sum of chlorinated VOCs means adding the concentrations of tetrachloroethene, trichloroethene, cis & trans-1,2-dichlorethene, and 1,1-dichloroethene.
5. Sampling occurred following 1/11/2019 injection of PlumeStop directly into well MW-6 and redevelopment on 2/8/19.
6. Well decommissioned April 2020.

Definitions:

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NR = parameter not regulated by 6NYCRR TOGS 1.1.1 Part 703
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N* = Indicates the spike or duplicate analysis is not within the quality control limits
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BOLD = Analytical result exceeds individual GWQS/GV; or potentially exceeds if the MDL is above the GWQS/GV.

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Periodic Review Report
Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	MW-6																				MW-7 [6]	MW-8 [6]
		Historic Groundwater Sampling Events									Pre-Injection	Post-Injection											
		08/22/06	01/30/12	03/05/13	06/26/13	09/25/13	12/04/13	06/04/14	06/04/15	06/28/16	07/10/17	11/30/17	02/27/18	06/04/18	08/08/18	10/29/18	2/22/19 [5]	07/23/19	11/25/19	06/11/20	12/01/20	8/21/06	8/21/06
TCL Volatile Organic Compounds (ug/L)																							
Acetone	**50**	ND	ND	ND	ND	ND	5.0 J	ND	ND	ND	ND	*ND < 150*	49	12 J	ND	ND	ND	ND	ND	5.4 J	ND	ND	ND
Bromodichloromethane	**5**	ND	4.4	0.47 J	ND	ND	ND	ND	ND	ND	ND	*ND < 20*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	***ND < 120***	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 66*	8.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**7**	ND	**14**	2	ND	ND	0.51 J	ND	ND	ND	ND	*ND < 17*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 16*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	**87**	ND	ND	ND	*ND < 22*	ND	ND	3.8 J	3.8 J	3.4 J	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	**NR**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	**5**	3.2 J	0.95 J	ND	ND	ND	1.6	ND	ND	ND	ND	*ND < 26*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	**5**	**3,100**	**1,700**	**410**	**1,600**	**1,300**	**1,600**	**1,500**	**570**	**1,200**	**390**	**90**	3.5 J	**120**	**290**	**170**	*ND<1.4*	0.45 J	ND	0.43 J	0.97 J	ND	**13**
Trichloroethene	**5**	**1,500**	**660**	**95**	**520**	**450**	**570**	**560**	**130**	**340**	**110**	**51**	4.9	**88**	**130**	**140**	*ND<1.8*	0.66 J	ND	ND	0.8 J	**6.0**	**20**
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 44*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 15*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichlorethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 41*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 45*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	**5**	**16 J**	4	ND	ND	ND	3.8	ND	ND	ND	ND	*ND < 41*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 12*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*ND < 19*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	4,600	2,360	505	2,120	1,750	2,170	2,060	700	1,540	500	141	8.4	208	420	310	0	1.1	0	0.43	1.77	6.0	33

Notes:

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4. Sum of chlorinated VOCs means adding the concentrations of tetrachloroethene, trichloroethene, cis & trans-1,2-dichlorethene, and 1,1-dichloroethene.
5. Sampling occurred following 1/11/2019 injection of PlumeStop directly into well MW-6 and redevelopment on 2/8/19.
6. Well decommissioned April 2020.

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BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

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Periodic Review Report
Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	MW-9 [6]												MW-10 [6]	MW-11 [6]	MW-12				
		Historic Groundwater Sampling Events										Current				Historic	Current			
		8/21/06	Blind Dup 8-21-06	9/12/07	1/31/12	6/26/13	9/25/13	12/4/13	6/4/14	6/4/15	6/28/16	7/23/19	11/25/19	8/21/06	03/10/08	03/10/08	7/23/19	11/25/19	6/11/20	12/1/20
TCL Volatile Organic Compounds (ug/L)																				
Acetone	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1 J	4.8 J	ND	ND	5.1	ND
Bromodichloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99	0.82 J	ND	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	0.94 J	ND	ND	ND	ND
Chloroform	**7**	2 J	2.1 J	0.9 J	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND	1.7	1.6	ND	ND	ND	ND
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	ND	ND	ND	ND	ND	**90**	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Methyl Acetate	**NR**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND
Tetrachloroethene	**5**	**3,100**	**2,800**	**2,600**	**390**	**870**	**900**	**1,000**	**1,300**	**920**	**300**	**33**	**51**	**17**	ND	**300 D**	**71**	**68**	**31**	**36**
Trichloroethene	**5**	**2,700**	**2,500**	**1,900**	**230**	**400**	**590**	**780**	**810**	**570**	**100**	4.7	**38**	**15**	ND	**270 D**	**14**	**12**	4.2	**5.3**
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**11**	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	3.5 J	3.9 J	1.3	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichlorethene	**5**	3.2 J	3.2 J	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66 J	ND	ND	ND	ND
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND
1,1,1-Trichloroethane	**5**	**34**	**36**	**12**	1.6	ND	ND	4.6	ND	ND	ND	ND	ND	0.60 J	ND	2.0	ND	ND	ND	ND
1,1,2-Trichloroethane	**1**	**3.8 J**	**3.7 J**	**1.9**	0.5 J	ND	ND	0.74 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	**5**	0.62 J	0.57 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	5,800	5,300	4,503	620	1,270	1,490	1,780	2,110	1,490	400	38	89	32	0	571	85	80	35	41

Notes:

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2. MS/MSD collected at PW-1.
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4. Sum of chlorinated VOCs means adding the concentrations of tetrachloroethene, trichloroethene, cis & trans-1,2-dichlorethene, and 1,1-dichloroethene.
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BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Periodic Review Report
Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter[1]	GWQS/GV[3]	PW-1 [6]	PW-1R [6]										PW-2 [5]				OW-1 [6]	OW-2 [6]
			Historic Groundwater Sampling Events				Pre-Injection	Post-Injection										
		8/22/06	1/30/12	6/4/14	6/4/15	6/28/16	07/10/17	11/30/17	02/27/18	06/04/18	07/23/19	12/11/19	1/30/12	6/4/14	6/4/15	6/28/16	8-22-06	8-22-06
TCL Volatile Organic Compounds (ug/L)																		
Acetone	**50**	ND	ND	ND	13	6.9 J	ND	30 J	6.0 J	8.2 J	ND	ND	8.1 J	0.46 J	12 J	8.7 J	ND	ND
Bromodichloromethane	**5**	ND	ND	1.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47	ND	ND	ND
Bromoform	**50**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	**50**	ND	ND	ND	ND	ND	ND	**160**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	**60**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**7**	0.55 J	1.1	1.3 J	0.72 J	ND	ND	ND	0.44 J	ND	ND	ND	2.3	2.2	1.3	0.96 J	0.58 J	ND
Dibromochloromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	**5**	ND	ND	**12**	ND	ND	ND	2.4 J	ND	ND	ND	ND	0.56 J	ND	ND	ND	ND	ND
Methyl tert-butyl ether	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	0.43 J	0.23 J	ND	ND
Methyl Acetate	**NR**	ND	ND	3.5 J	2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND
Toluene	**5**	1.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	0.52	0.55 J	ND	ND
Tetrachloroethene	**5**	**780**	**360**	**92**	**160**	**120**	**100**	ND	0.74 J	2.9	**6.7**	**10**	1.3	**20**	**18**	**11**	**570**	0.82 J
Trichloroethene	**5**	**540**	**220**	**75**	**94**	**71**	**70**	ND	4.7	**13**	**18**	**22**	3.3	**25**	**16**	**12**	**470**	**320**
Trichlorofluoromethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 J	ND
cis-1,2-Dichlorethene	**5**	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	0.86 J	ND	ND	0.65 J	4 J
trans-1,2-Dichloroethene	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J
1,1,1-Trichloroethane	**5**	3.6 J	0.96 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.4**	ND
1,1,2-Trichloroethane	**1**	0.51 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1 Dichloroethane	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Site COCs (cVOCs)[4]	NA	1,320	580	167	254	191	170	0	5.4	16	27	32	4.6	46	34	23	1,040	321

Notes:

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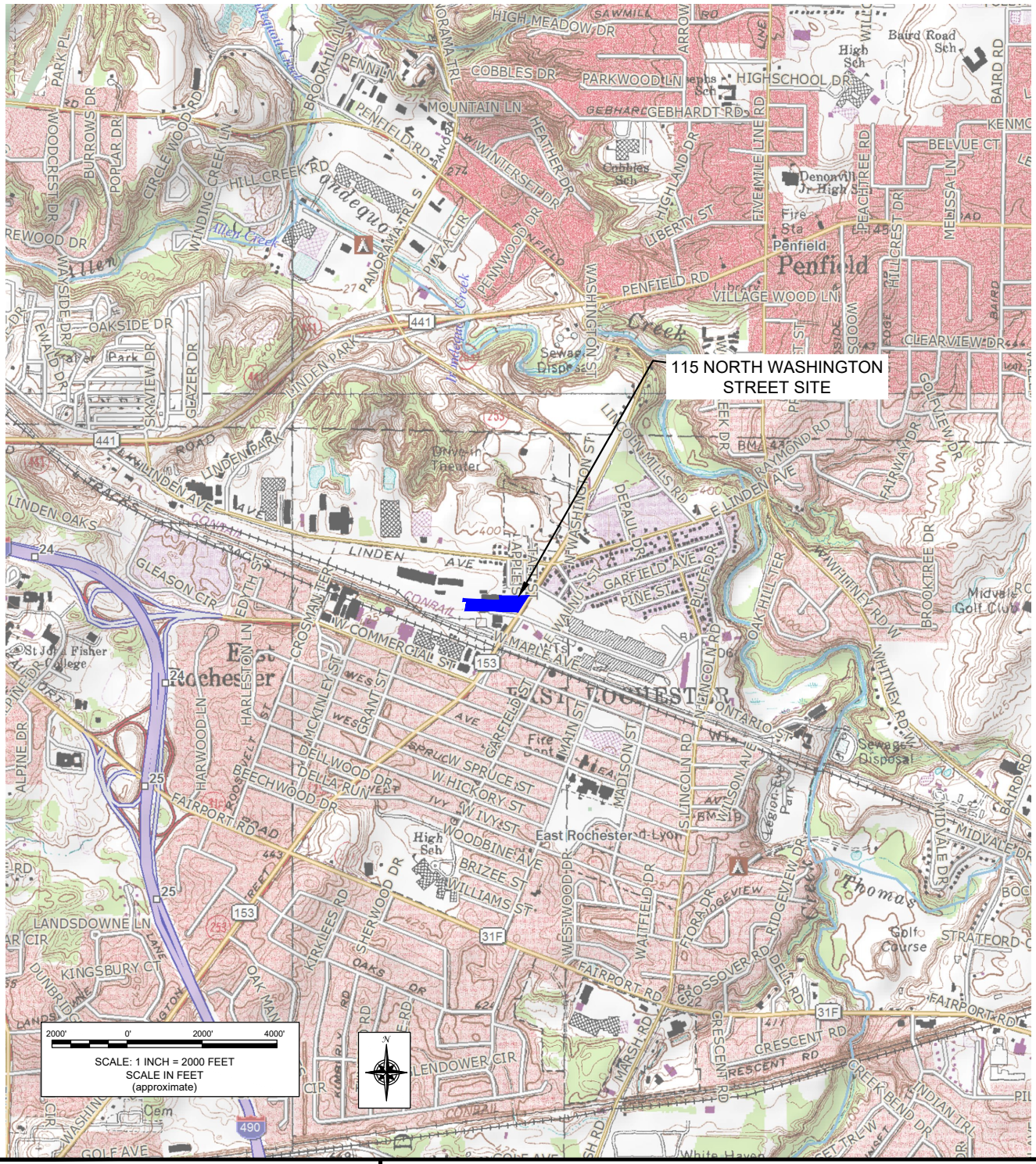
FIGURES

F:\CAD\Benchmark\Despatch\PRR\2020\Figure 1; Site Location and Vicinity Map.dwg

FIGURE 1



BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

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

PROJECT NO.: 0040-002-400

DATE: FEBRUARY 2021

DRAFTED BY: RFL/CCB

SITE LOCATION AND VICINITY MAP

PERIODIC REVIEW REPORT

FORMER BRAINERD MANUFACTURING FACILITY
EAST ROCHESTER, NEW YORK
NYSDEC SITE NO. V00519-8

PREPARED FOR

DESPATCH INDUSTRIES, INC.

DISCLAIMER:
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F:\CAD\Benchmark\Despatch\PRR\2019\Figure 2; Site Plan.dwg

LEGEND

	PROPERTY BOUNDARY
PW-1	DECOMMISSIONED PUMPING WELL LOCATION - GROUTED IN-PLACE
OW-1	DECOMMISSIONED OBSERVATION WELL LOCATION - GROUTED IN-PLACE
RW-1	DECOMMISSIONED REINJECTION WELL LOCATION - GROUTED IN-PLACE
MW-1	DECOMMISSIONED MONITORING WELL LOCATION - GROUTED IN-PLACE
MW-5	EXISTING MONITORING WELL LOCATION
	EXTERNAL UNDERGROUND PIPING FROM gPRO TREATMENT UNIT TO RECHARGE WELLS

NOTES:
1. DATE OF AERIAL PHOTOGRAPHY APRIL 2016; SOURCE GOOGLE EARTH.

N

80' 0' 80' 160'

1"= 80'
SCALE IN FEET
(approximate)

DATE: FEBRUARY 2021
DRAFTED BY: RFL/CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

JOB NO.: 0040-002-400

SITE PLAN (AERIAL)

PERIODIC REVIEW REPORT
FORMER BRAINERD MANUFACURING FACILITY
EAST ROCHESTER, NEW YORK
NYSDEC SITE NO. V00519-8
PREPARED FOR
DESPATCH INDUSTRIES, INC.

FIGURE 2

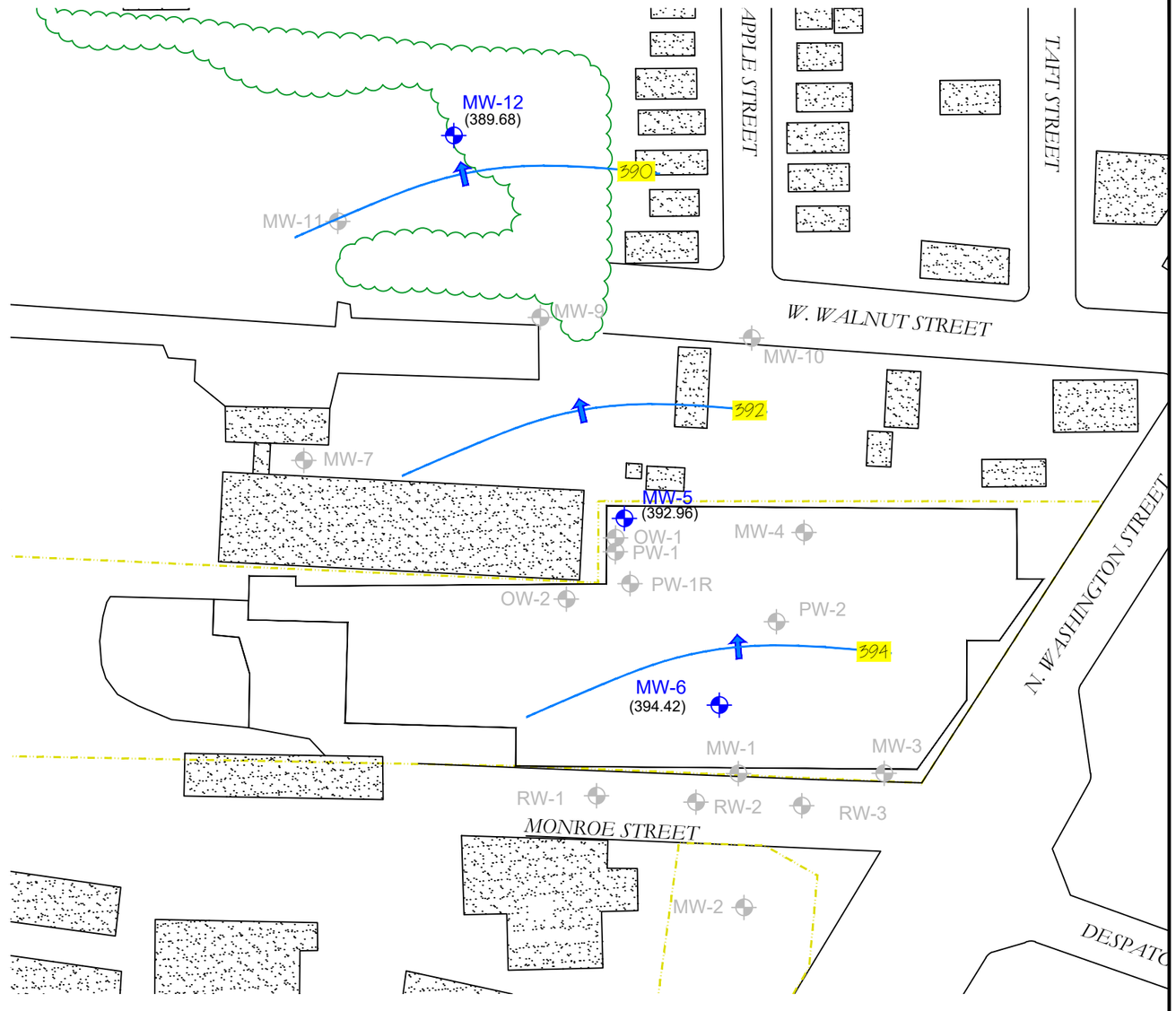
DISCLAIMER:
PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN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

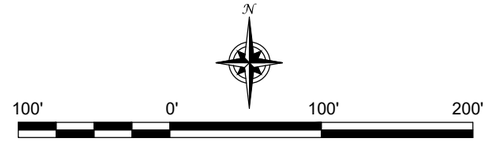
F:\CAD\Benchmark\Despatch\PRR\2020\Figure 3; Groundwater Isopotential Map (December 2020).dwg

EXPLANATION

- PROPERTY BOUNDARY
- OFF-SITE BUILDING STRUCTURE
- PW-1 — DECOMMISSIONED PUMPING WELL LOCATION - GROUTED IN-PLACE
- OW-1 — DECOMMISSIONED OBSERVATION WELL LOCATION - GROUTED IN-PLACE
- RW-1 — DECOMMISSIONED REINJECTION WELL - GROUTED IN-PLACE
- MW-1 — DECOMMISSIONED WELL LOCATION - GROUTED IN-PLACE
- MW-5 — MONITORING WELL LOCATION
- (392.96) — GROUNDWATER ELEVATION (MEASURED 12/1/2020)
- 392 — GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
1. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION AND ENGINEERING JUDGEMENT FOR GROUNDWATER LEVELS MEASURED ON DATE INDICATED.





SCALE: 1 INCH = 100 FEET
SCALE IN FEET
(approximate)

DATE: FEBRUARY 2021
DRAFTED BY: CCB/RFL

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

JOB NO.: 0040-002-400

GROUNDWATER ISOPOTENTIAL MAP (DECEMBER 2020)

PERIODIC REVIEW REPORT

FORMER BRAINERD MANUFACTURING FACILITY
EAST ROCHESTER, NEW YORK
NYSDEC SITE NO. V00519-8

PREPARED FOR

DESPATCH INDUSTRIES, INC.

FIGURE 3

DISCLAIMER:
PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. 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.

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. V00519

Site Name Former Brainerd Manufacturing Site

Site Address: 115 North Washington Street Zip Code: 14445-
City/Town: East Rochester
County: Monroe
Site Acreage: 3.300

Reporting Period: February 28, 2020 to February 28, 2021

	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))?		✓
Operation as a self-storage facility began during reporting period		
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?		✓
Interior renovations completed Fall of 2020		

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	✓	
7. Are all ICs 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

SITE NO. V00519

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
139.69-1-17	~~Alan Shaffer~~ Sean Donohoe	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan
		Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan

Environmental Easement executed on 5/1/14.
Property use restricted to commercial or industrial.
Implement a Site management plan that includes periodic certification.
Groundwater shall not be used as a potable source of water.
Monitor groundwater on a regular basis as approved by the Department.

139.69-1-19	~~Alan Shaffer~~ Sean Donohoe	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan

Environmental Easement executed on 5/1/14.
Property use restricted to commercial or industrial.
Implement a Site management plan that includes periodic certification.
Groundwater shall not be used as a potable source of water.
Monitor groundwater on a regular basis as approved by the Department.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
139.69-1-17	Groundwater Treatment System Vapor Mitigation Groundwater Treatment System Vapor Mitigation Cover System Cover System

Operate, maintain, and monitor a hydrogen injection groundwater treatment system until the Department approves modification or shutdown.
Operate, maintain, and monitor a sub-slab depressurization system until the Department approves modification or shutdown.
Maintain site cover.

139.69-1-19	Cover System

Maintain site cover

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 Engineering Control 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. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
☑	☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00519

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 Alan Shaffer (print name) at Despatch Industries, Inc. 4301 Military Rd NW, Apt 312, Washington, DC 20015 (print business address),

am certifying as Remedial Party (Owner or Remedial Party)

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

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification — Date: 3/3/20

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 Forbes (print name) at Benchmark Environmental Engineering 2558 Hamburg Turnpike, Buffalo NY 14218 (print business address),

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

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

Stamp (Required for PE)

3-2-21
Date

APPENDIX B

WELL DECOMMISSIONING LOGS

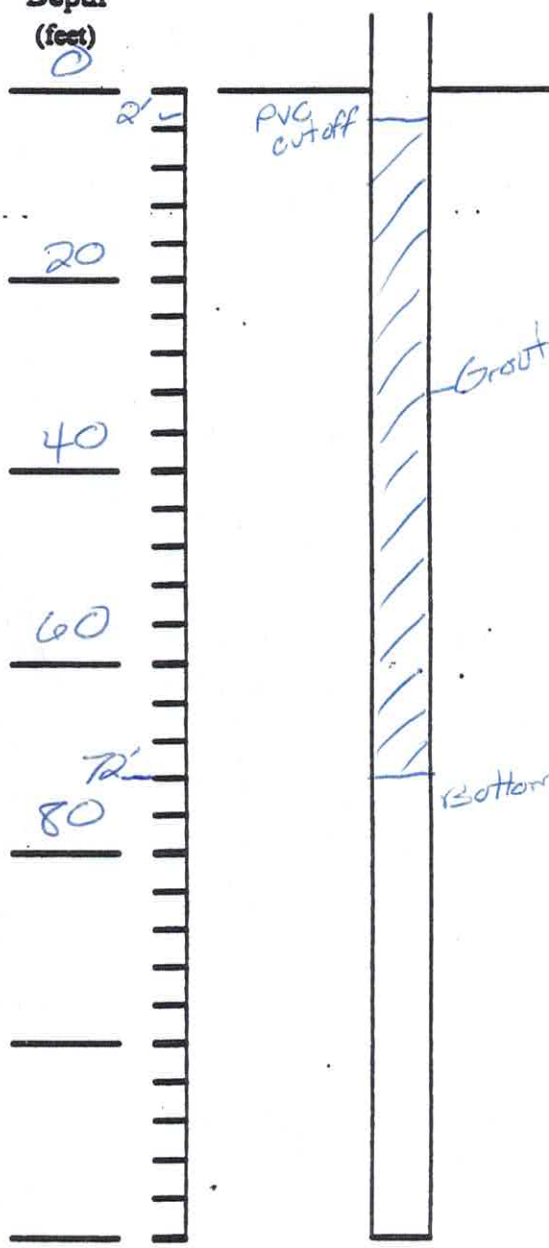
WELL DECOMMISSIONING RECORD
NYSDEC NPL Sites

Site Name: Former Brainerd MFG.	Well I.D.: MW-1
Site Location: Ext. Brainerd Bldg.	Driller: T. Mangefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Surazi
	Date: 4-14-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	72'-2'
# of batches prepared	2
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	TYPE I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	12

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in Place. Surface completion Removed and PVC cut off 2' BGS.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Thomas D. Mangefrida

Department Representative

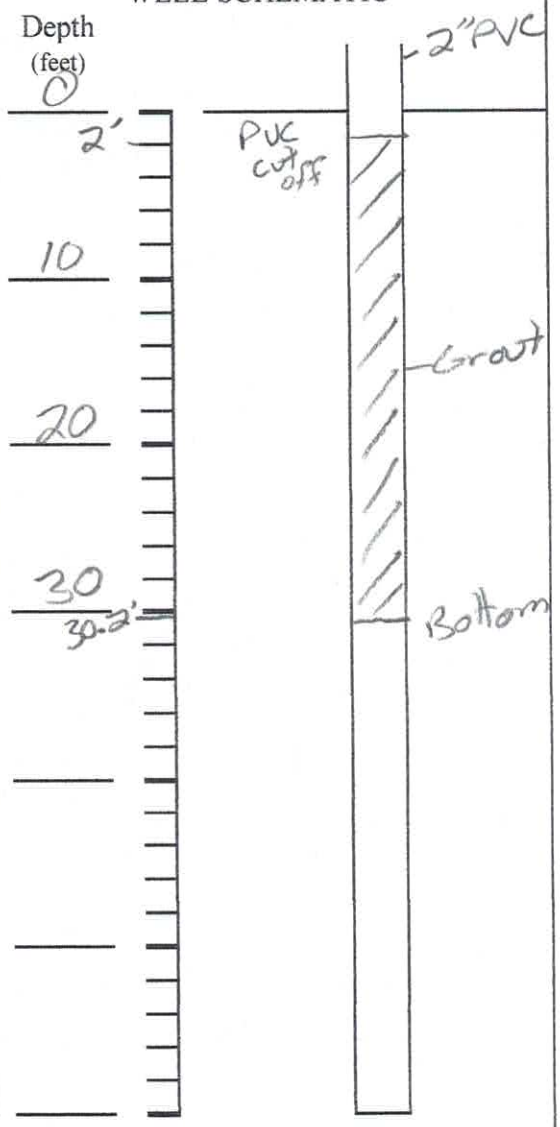
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG.	Well I.D.: MW-15
Site Location: 949 Linden Ave	Driller: T. Mangefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Suraci
	Date: 4-20-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	30.2'-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	5

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in place. PVC cut off 2' BGS. Surface Completion Backfilled with concrete and finished to match

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

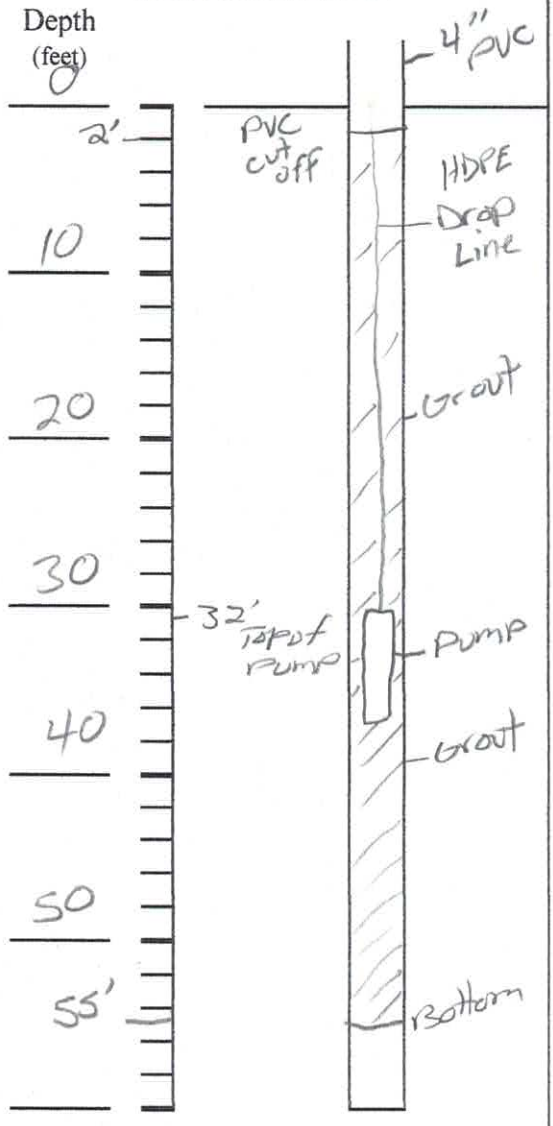
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG	Well I.D.: Pump well 1R
Site Location: Int. Brainerd Bldg.	Driller: T. Manafrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Sufaci
	Date: 4-21-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	55'-1'
# of batches prepared	4
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	35

WELL SCHEMATIC*



COMMENTS: Sub. pump stuck in well. unable to retrieve. Tremie grout abandoned in place. PVC and HDPE drop line cut off 2' BGS. Surface Completion Backfilled w/ Concrete

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

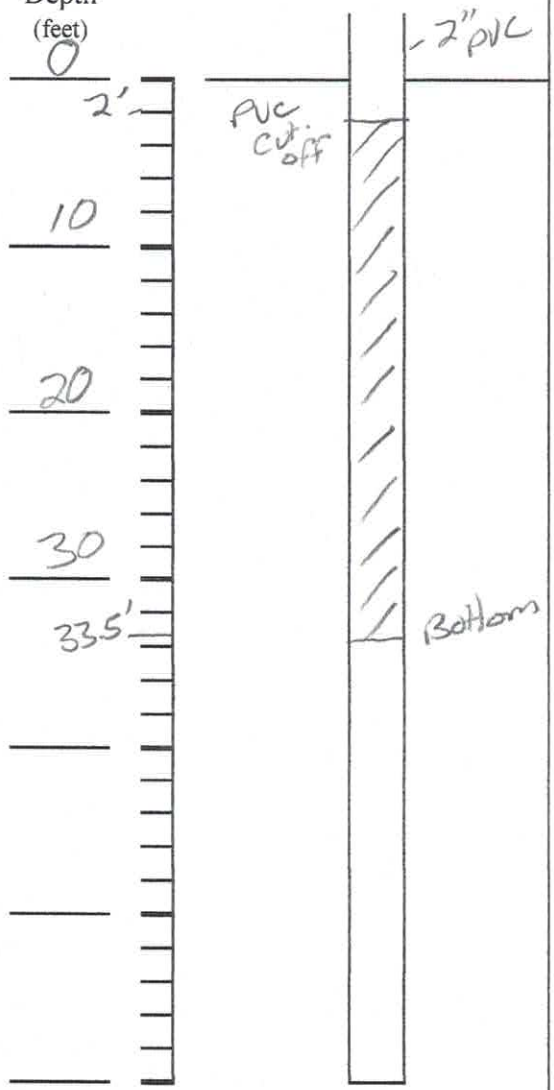
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG.	Well I.D.: MW-10
Site Location: 49 Walnut St.	Driller: T. Mangefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Surdi
	Date: 4-20-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	33.5-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	TYPE I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	5.5

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in place. PVC cut off 2' BGS Surface Completion Backfilled with Concrete and finished to match

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Thomas H. Mangefrida
Drilling Contractor

Department Representative

FIGURE 3

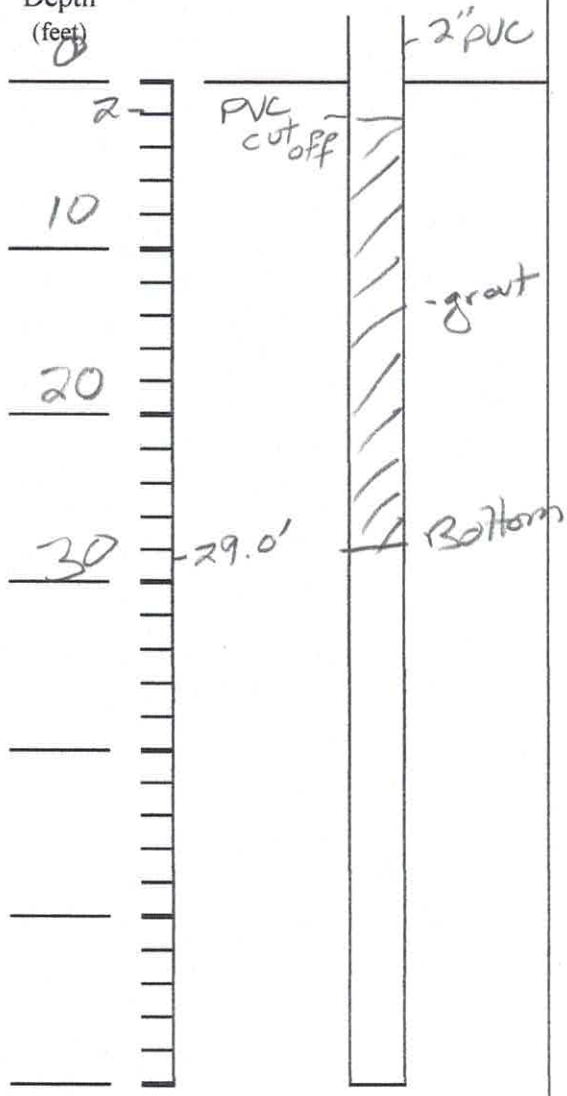
WELL DECOMMISSIONING RECORD

Site Name:	Former Brainerd MFG.	Well I.D.:	MW-13
Site Location:	939 Linden Ave	Driller:	T. Mangefrida
Drilling Co.:	Nothnagle Drilling	Inspector:	N. Suraci
		Date:	4-20-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	29.0'-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	5.0

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in place. PVC cut off 2' BGS. Surface completion filled with concrete and finished to match.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Thomas M. Mangefrida

Drilling Contractor

Department Representative

FIGURE 3

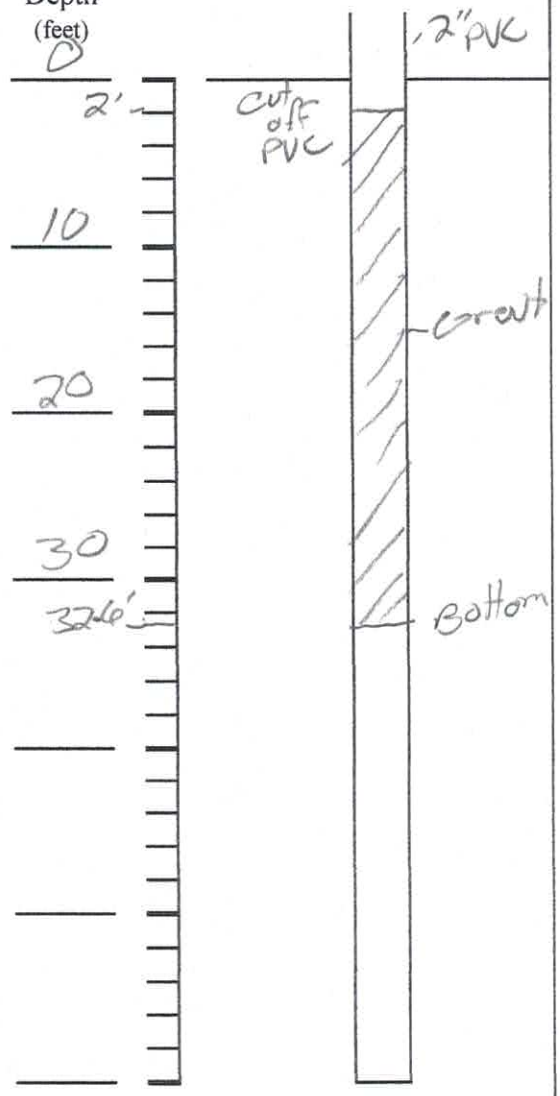
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG.	Well I.D.: MW-14
Site Location: 930 Linden Ave.	Driller: T. Mangefrida
Drilling Co.: Nothnagle Drilling	Inspector: N Surac
	Date: 4-20-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	32.6'-1'
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	5.5

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in place Surface completion Removed and Backfilled with topsoil PVC cut off 2' BLS

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Thomas A. Mangefrida

Drilling Contractor

Department Representative

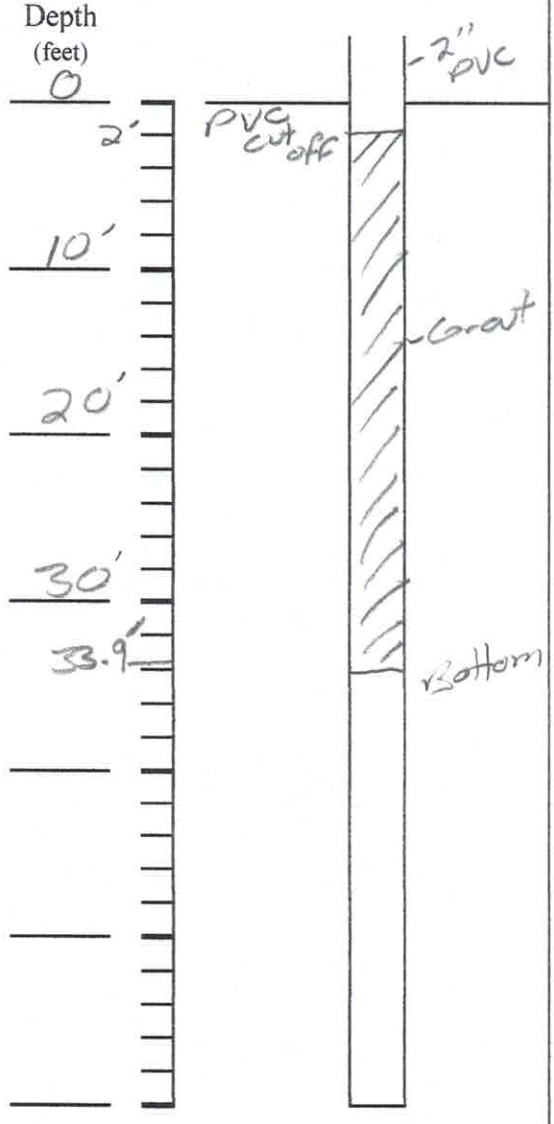
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd Mfg.	Well I.D.: MW-16
Site Location: 938 Linden Ave.	Driller: T. Mangefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Surace
	Date: 4-20-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	33.9'-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	TYPE I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	6

WELL SCHEMATIC*



COMMENTS:
Tremie grout abandoned in place
Surface completion removed and backfilled w/ topsoil. PVC cut off 2' BLS.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

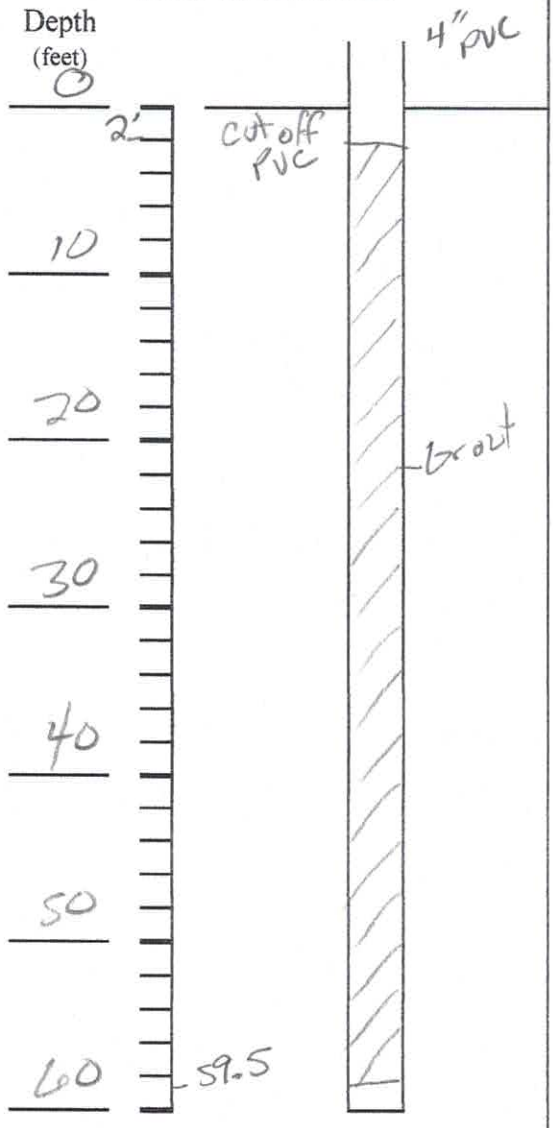
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG	Well I.D.: Pump well #2
Site Location: Int. Brainerd Bldg.	Driller: T. Margetfrida
Drilling Co.: Nothnagle Drilling	Inspector: N Sujaci
	Date: 4-21-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	59.5'-1'
# of batches prepared	4
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	40

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in place. PVC cut off 2' BGS. Surface completion backfilled with concrete and finished to match

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

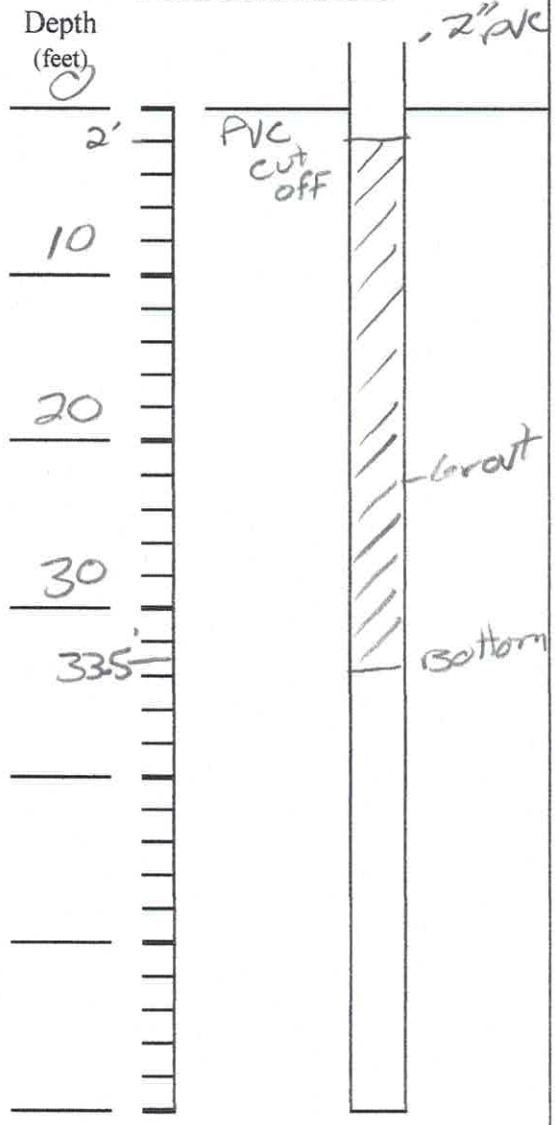
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG.	Well I.D.: MW-9
Site Location: EJ Delmonte	Driller: T. Mangefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Surack
	Date: 4-20-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	33.5'-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	5.5

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in Place. PVC cutoff 2' BGS. Surface Completion Backfilled with Concrete and finished to match

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 3

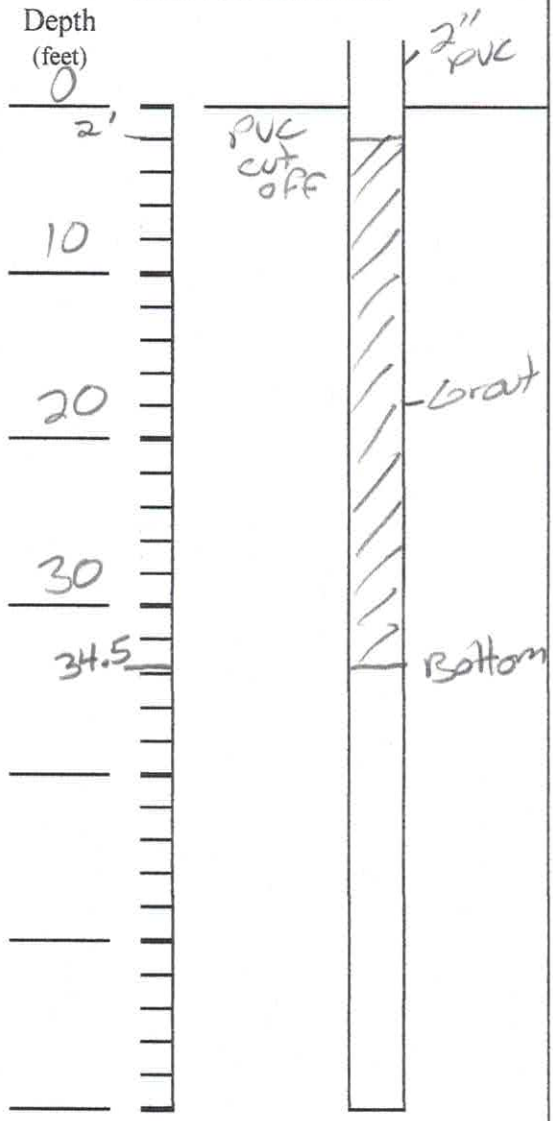
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG.	Well I.D.: MW-11
Site Location: ES Delmonte	Driller: T. Manzfrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Supaci
	Date: 4-20-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	34.5'-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	LP

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in Place. PVC Cut Off 2' BGS. Surface Completion Backfilled with Concrete and Finished to match

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Thomas H. Manzfrida

Drilling Contractor

Department Representative

FIGURE 3

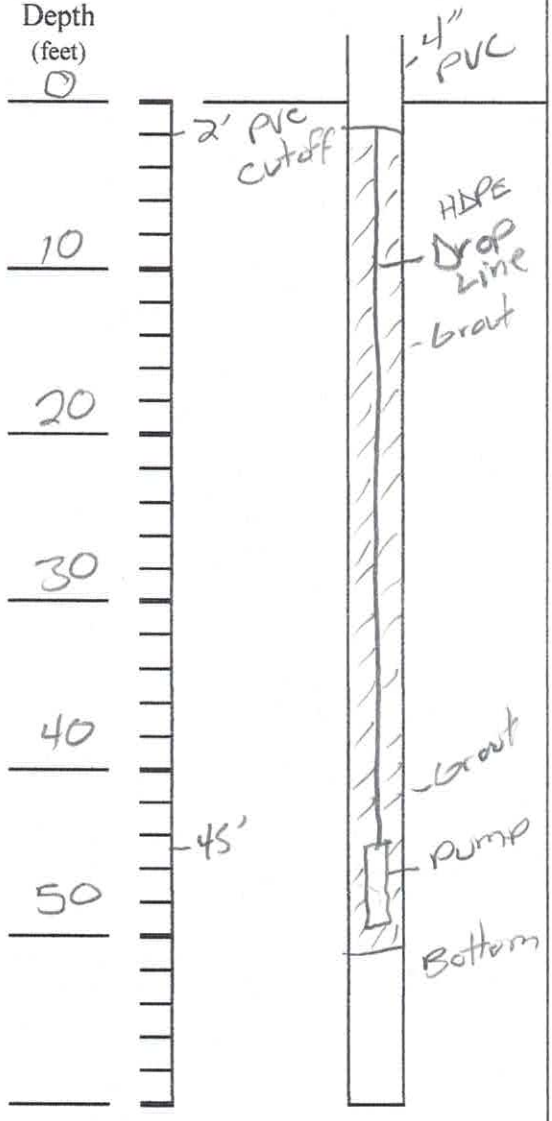
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG.	Well I.D.: Pumpwell #1
Site Location: Int. Brainerd Bldg.	Driller: T. Managefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Suraci
	Date: 4-22-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	50'-1'
# of batches prepared	
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	33

WELL SCHEMATIC*



COMMENTS: Sub. Pump stuck in well. Unable to Retrieve. Tremie grout abandoned in place. PVC and HDPE drop line cut 2' BGS Surface Comp. Backfilled with Concrete

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Thomas H. Manfredi
Drilling Contractor

Department Representative

FIGURE 3

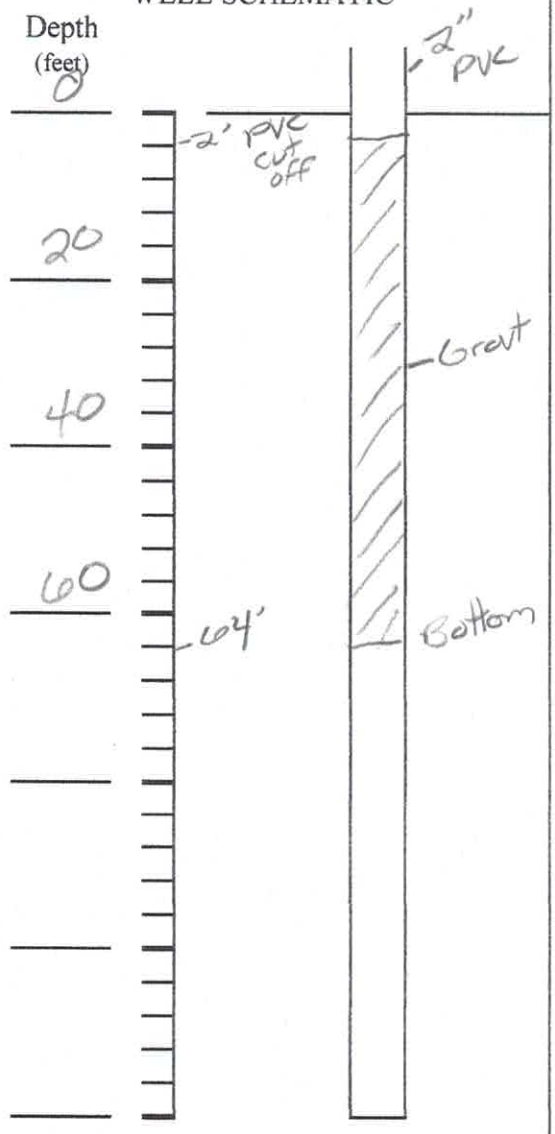
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG	Well I.D.: OW-2
Site Location: Int. Brainerd Bldg	Driller: T. Mangefrida
Drilling Co.: Nathnagle Drilling	Inspector: N. Suraci
	Date: 4-21-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	64'-1'
# of batches prepared	2
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	TYPE I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	11

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in place. PVC cutoff 2' BGS. Surface completion backfilled with concrete and finished to match

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

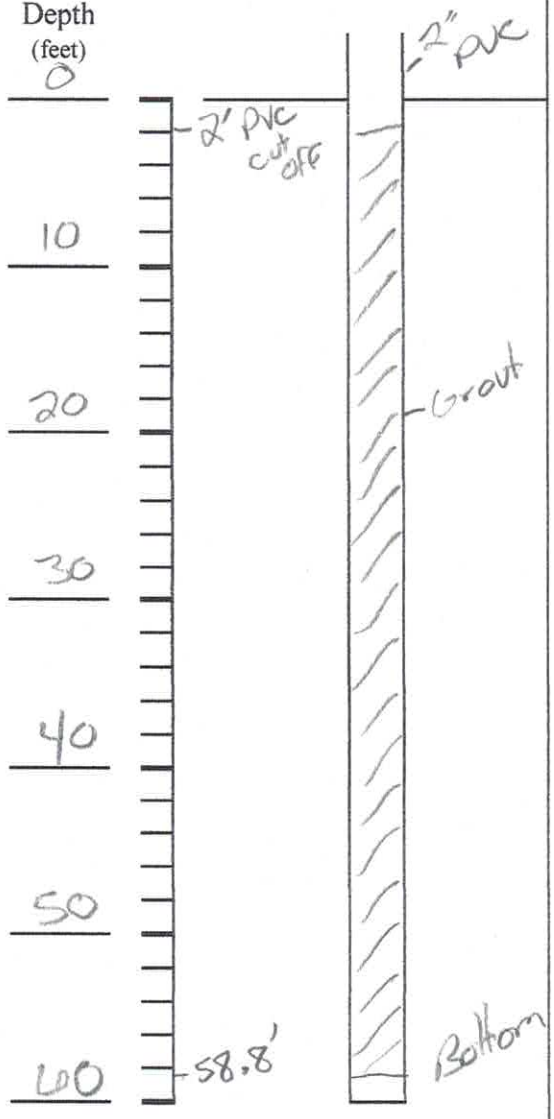
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG.	Well I.D.: OW-1
Site Location: Int. Brainerd Bldg.	Driller: T. Managefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Suraci
	Date: 4-21-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	58.8'-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	10

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in place PVC cut off 2' BGS. Surface completion Backfilled with Concrete and finished to match

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

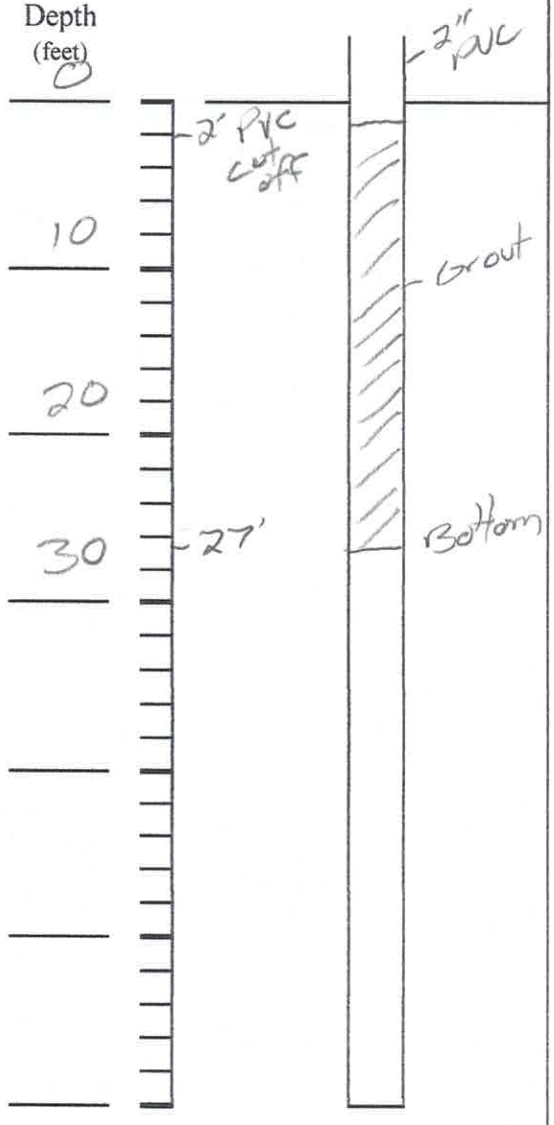
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG	Well I.D.: MW-3
Site Location: Int. Brainerd Bldg.	Driller: T. Mangefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Suraci
	Date: 4-22-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	27'-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	4.5

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in place. PVC cut off 2' BGS. Surface completion backfilled with concrete and finished to match

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Thomas H. Manfredi
Drilling Contractor

Department Representative

FIGURE 3

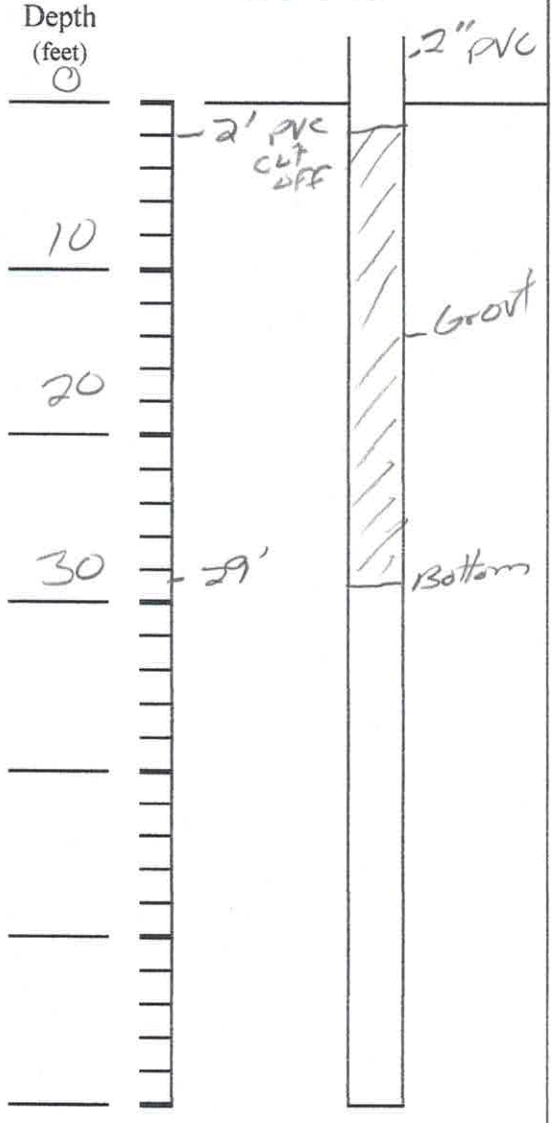
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG.	Well I.D.: MW-4
Site Location: Ext. Brainerd Bldg.	Driller: T. Mangefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Suraci
	Date: 4-22-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	29'-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	—
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	5

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in Place. PVC cut off 2' BGS Surface completion Backfilled with Concrete and finished to match

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

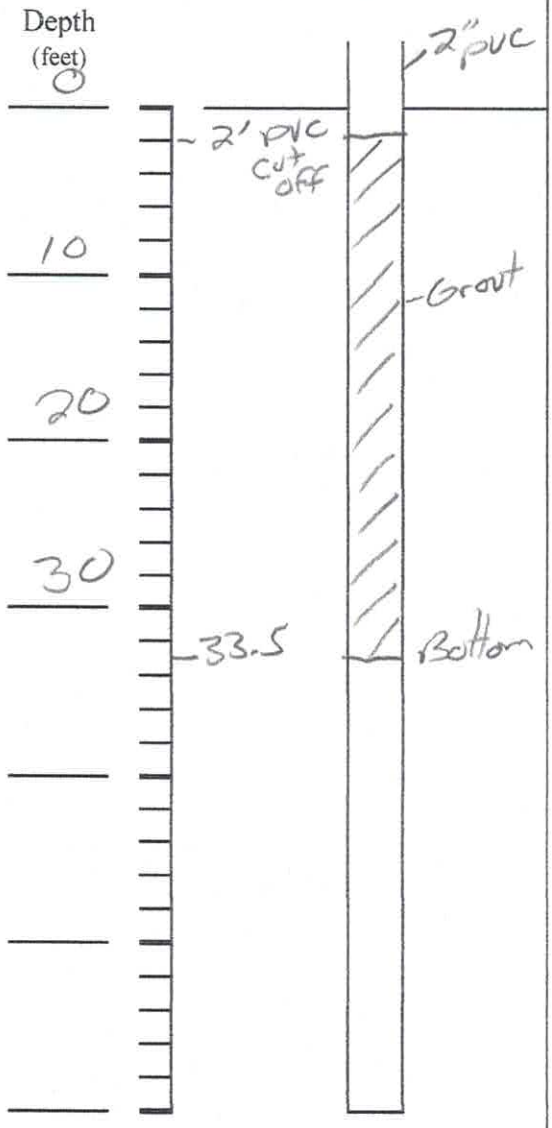
FIGURE 3
WELL DECOMMISSIONING RECORD

Site Name: Former Brainerd MFG	Well I.D.: MW-7
Site Location: E.J. Delmonte Property	Driller: T. Mangefrida
Drilling Co.: Nothnagle Drilling	Inspector: N. Sutaci
	Date: 4-22-20

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	33.5-1'
# of batches prepared	1
For each batch record:	
Quantity of water used (gal.)	7.8
Quantity of cement used (lbs.)	94
Cement type	Type I
Quantity of bentonite used (lbs.)	3.9
Quantity of calcium chloride used (lbs.)	-
Volume of grout prepared (gal.)	10
Volume of grout used (gal.)	5.5

WELL SCHEMATIC*



COMMENTS: Tremie grout abandoned in place. PVC cut off 2' BGS. Surface completion removed and backfilled with topsoil

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

APPENDIX C

SITE PHOTOLOG

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Despatch Industries, Inc	East Rochester, NY	0040-002-400

Photo No.	Date
1	2/4/2021

Direction Photo Taken:
Northwest

Description:
Façade along Monroe Street.

Photo No.	Date
2	2/4/2021

Direction Photo Taken:
West

Description:
ASD Manometer and extraction point (Manometer 4).

Prepared By: *THF*

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Despatch Industries, Inc	East Rochester, NY	0040-002-400

Photo No.	Date
3	2/4/2021

Direction Photo Taken:
Typical

Description:
Storage units.

Photo No.	Date
4	2/4/2021

Direction Photo Taken:
South

Description:
ASD Manometer and extraction point (Manometer 5).

Prepared By: THF

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Despatch Industries, Inc	East Rochester, NY	0040-002-400

Photo No.	Date
5	2/4/2021

Direction Photo Taken:
South

Description:
ASD Manometer and extraction point (Manometer 2).

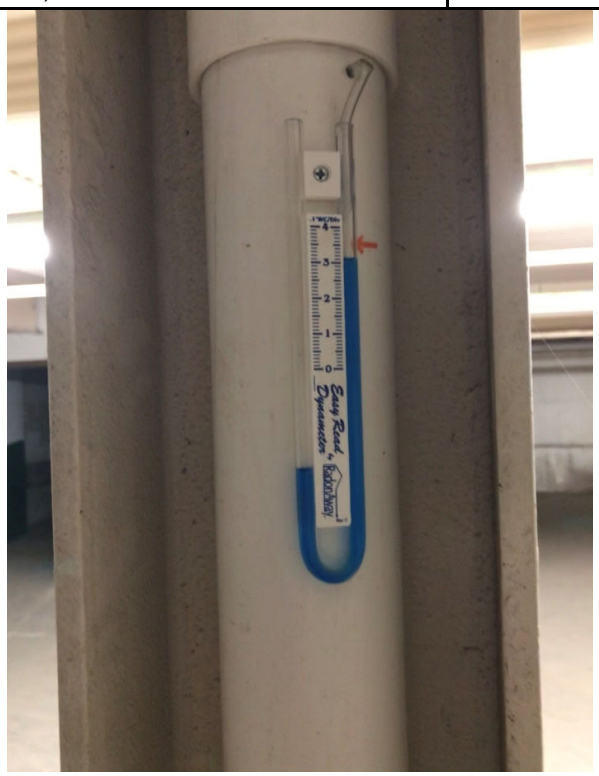


Photo No.	Date
6	2/4/2021

Direction Photo Taken:
North

Description:
ASD Manometer and extraction point (Manometer 1).

Prepared By: THF

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Despatch Industries, Inc	East Rochester, NY	0040-002-400

Photo No.	Date
7	2/4/2021

Direction Photo Taken:
North

Description:
ASD Manometer and extraction point (Manometer 3).

Photo No.	Date
8	2/4/2021

Direction Photo Taken:
Northwest

Description:
Front of Building along Monroe Street.

Prepared By: THF

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.:
Despatch Industries, Inc	East Rochester, NY	0040-002-400

Photo No.	Date
9	2/4/2021

Direction Photo Taken:
Northwest

Description:
Cover area.

Photo No.	Date
10	2/4/2021

Direction Photo Taken:
East

Description:
Building and former gPRO system.

Prepared By: *THF*

APPENDIX D

ASD PERIODIC INSPECTION LOGS

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

MONTHLY LOG SHEET
ASD SYSTEM
Former Brainerd Manufacturing Facility
East Rochester, NY

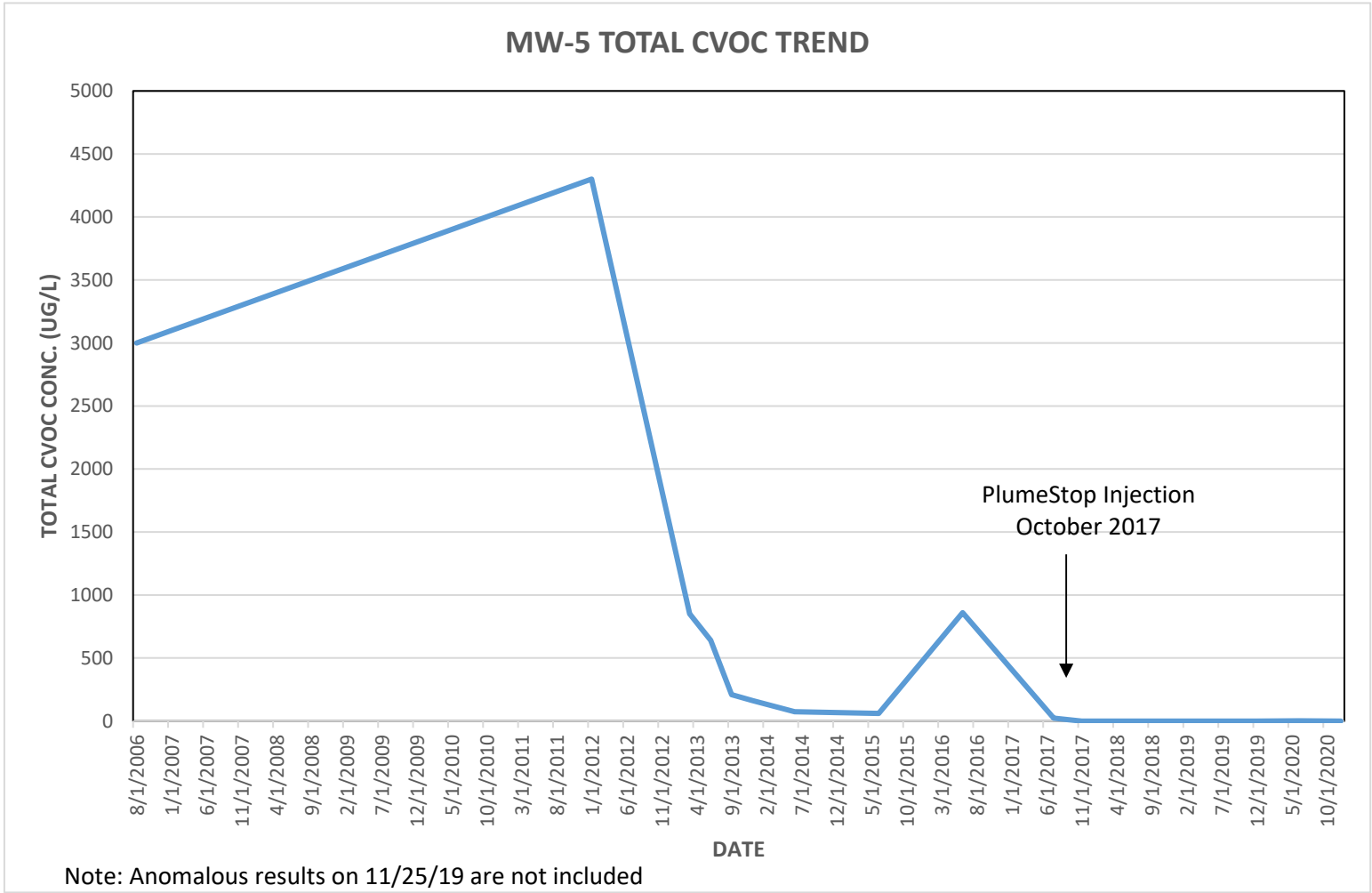
Date	Vacuum Gauge Number											
	Vacuum Gauge 1 Near Air Stripper		Vacuum Gauge 2 Basement		Vacuum Gauge 3 Hallway		Vacuum Gauge 4 Wood Shop		Vacuum Gauge 5 Office		Vacuum Gauge 6 Paint Room	
	Time of Reading	Vacuum Reading (in. Water)	Time of Reading	Vacuum Reading (in. Water)	Time of Reading	Vacuum Reading (in. Water)	Time of Reading	Vacuum Reading (in. Water)	Time of Reading	Vacuum Reading (in. Water)	Time of Reading	Vacuum Reading (in. Water)
7/25/16	11:12	1.2	11:15	3.5	11:12	3.4	11:13	2.1	11:14	1.0	11:13	2.2
8/11/16	10:00	1.2	10:15	3.6	10:05	3.3	10:10	2.1	10:14	0.9	10:13	2.2
9/2/16	11:00	1.2	11:06	3.6	11:01	3.4	11:03	2.1	11:04	1.0	11:02	2.2
10/18/16	10:30	1.2	10:38	3.6	10:32	3.4	10:36	2.1	10:35	1.0	10:34	2.1
11/28/16	12:30	1.2	12:35	3.5	12:31	3.4	12:34	2.1	12:33	1.0	12:32	2.2
12/5/16	12:00	1.1	12:06	3.5	12:02	3.4	12:05	2.1	12:04	0.9	12:03	2.0
3/1/17	11:30	1.1	11:36	3.3	11:31	3.4	11:35	2.1	11:33	0.9	11:32	2.0
5/23/17	11:00	1.3	11:06	3.5	11:01	3.4	11:37	2.0	11:38	1.0	11:02	2.0
7/26/17	10:30	1.2	10:35	3.5	10:31	3.4	10:37	2.0	10:33	1.0	10:32	2.0
10/20/17	10:30	1.2	10:35	3.5	10:31	3.4	10:37	2.0	10:33	1.0	10:32	2.0
11/30/17	12:29	1.2	12:35	3.5	12:31	3.4	12:34	2.0	12:33	1.0	12:32	2.1
2/27/18	13:28	1.2	13:35	3.5	13:31	3.4	13:34	2.0	13:33	1.0	13:32	2.1
4/30/18	13:28	0.4	13:35	3.0	13:31	3.0	13:34	2.0	13:33	0.8	13:32	1.0
12/12/18	10:45	0.25	10:40	2.75	10:55	3.0	10:59	1.9	10:35	0.8	10:56	1.0
1/11/19	9:25	0.30	12:01	2.70	9:24	3.0	9:21	1.9	9:22	0.8	9:23	1.0
2/27/2020	13:00	0.2	13:05	2.95	13:10	2.1	13:15	1.9	13:20	1.25	13:25	1.4
2/4/2021	11:04	0.3	10:35	3.15	11:06	1.7	10:23	1.9	10:38	0.9	--	--

Notes:

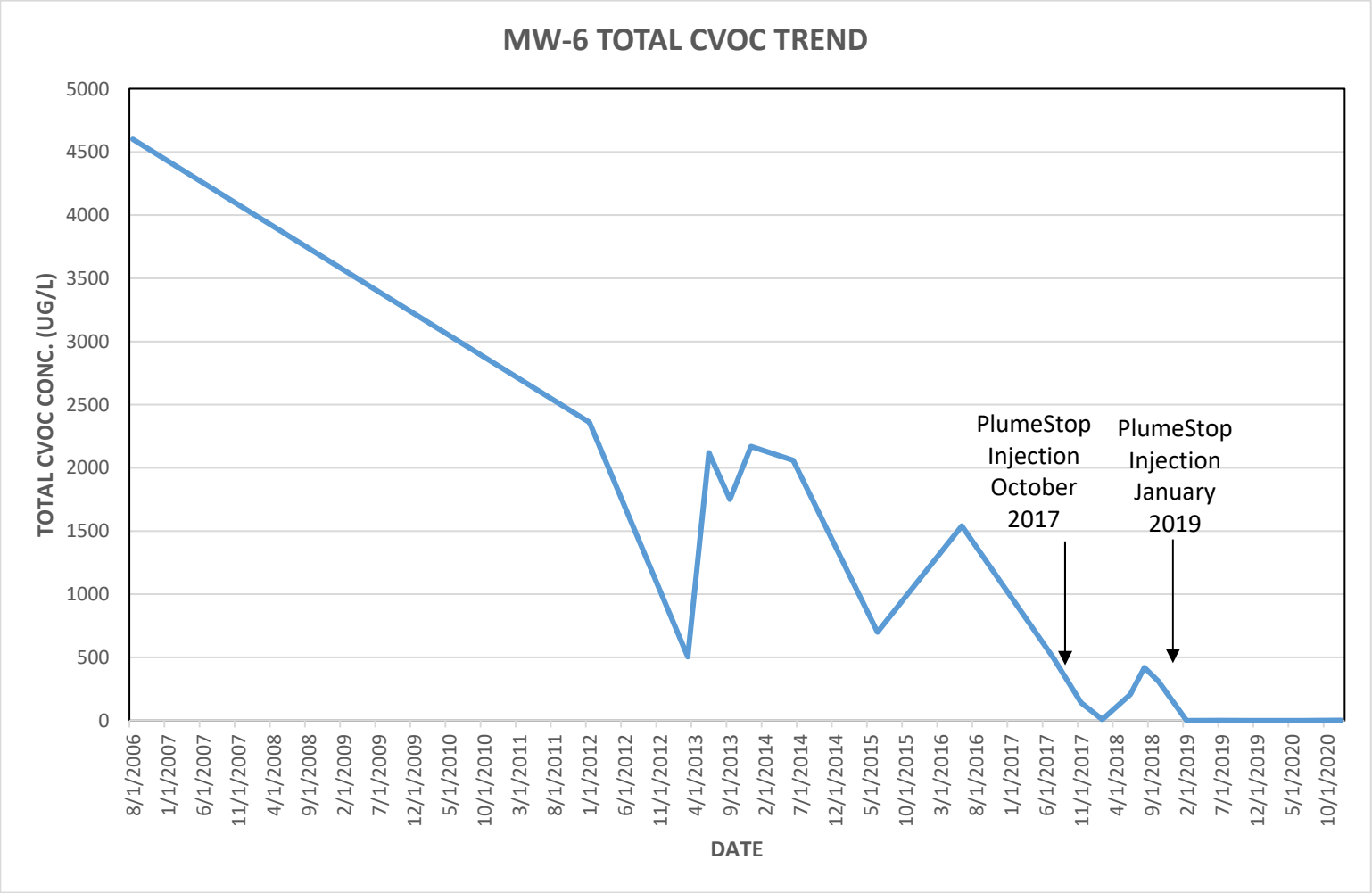
1. No ASD manometer readings collected March 2020 to January 2021 due to interior renovation work, COVID-19 related restrictions, and adjustment to new site operations.
2. On February 4, 2021 Vacuum Gauge 6 was inaccessible as it was locked inside an occupied storage unit. In Spring 2021, a redundant manometer will be installed on the same extraction leg in a more readily accessible location.

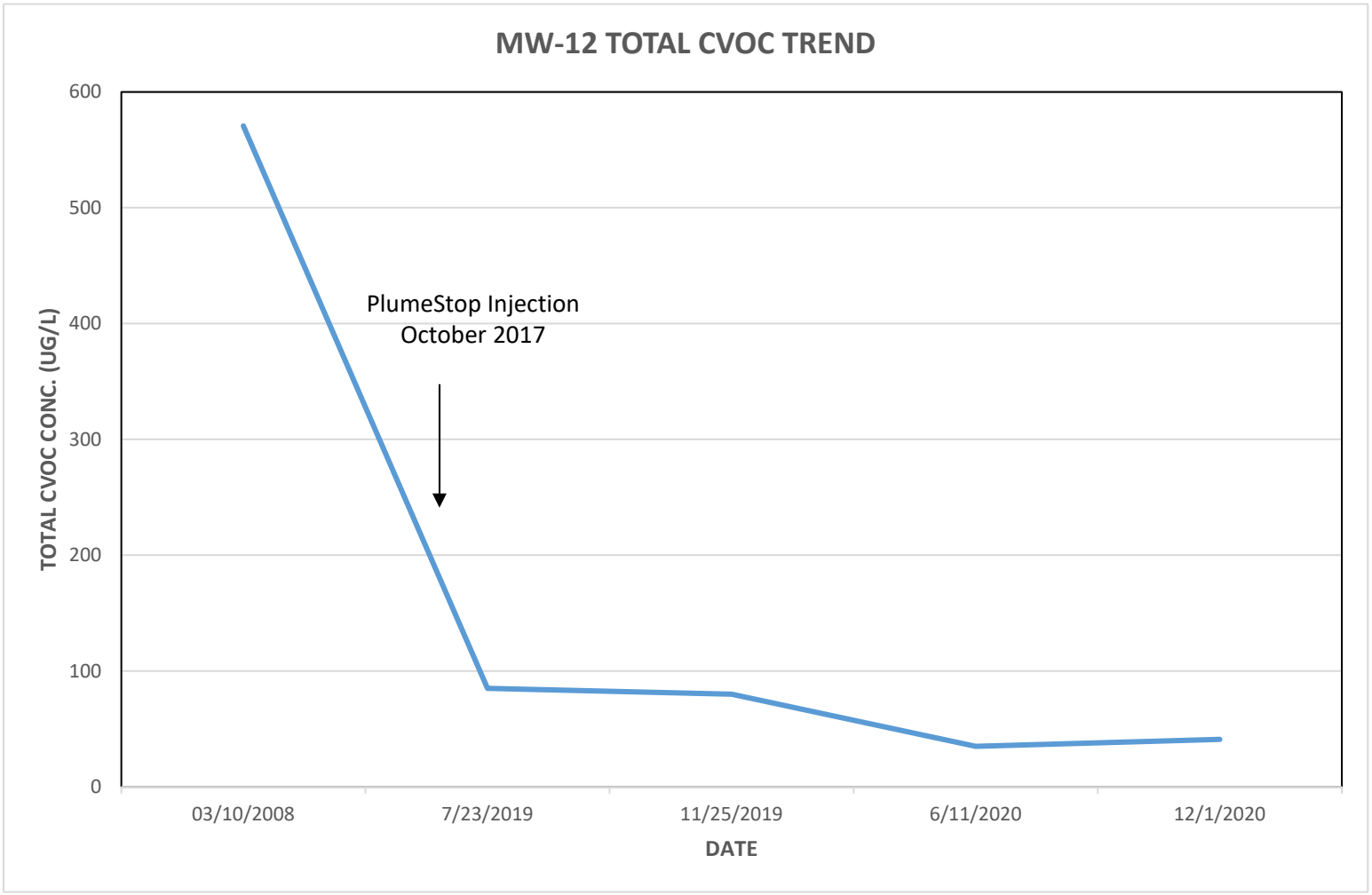
APPENDIX E

cVOC TREND CHARTS



Note: Anomalous results on 11/25/19 are not included


MW-6 TOTAL CVOC TREND
TOTAL CVOC CONC. (UG/L)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
PlumeStop Injection October 2017
PlumeStop Injection January 2019
8/1/2006
1/1/2007
6/1/2007
11/1/2007
4/1/2008
9/1/2008
2/1/2009
7/1/2009
12/1/2009
5/1/2010
10/1/2010
3/1/2011
8/1/2011
1/1/2012
6/1/2012
11/1/2012
4/1/2013
9/1/2013
2/1/2014
7/1/2014
12/1/2014
5/1/2015
10/1/2015
3/1/2016
8/1/2016
1/1/2017
6/1/2017
11/1/2017
4/1/2018
9/1/2018
2/1/2019
7/1/2019
12/1/2019
5/1/2020
10/1/2020
DATE


MW-12 TOTAL CVOC TREND
TOTAL CVOC CONC. (UG/L)
600
500
400
300
200
100
0
PlumeStop Injection
October 2017
03/10/2008
7/23/2019
11/25/2019
6/11/2020
12/1/2020
DATE

APPENDIX F

GROUNDWATER ANALYTICAL LABORATORY REPORTS

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-171236-1
Client Project/Site: Benchmark - Despatch site

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Ms. Lori E. Riker

Authorized for release by:
6/22/2020 2:48:38 PM

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-171236-1
Project/Site: Benchmark - Despatch site

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-171236-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-171236-1

Comments
No additional comments.

Receipt
The samples were received on 6/16/2020 11:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) for analytical batch 480-536617 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCS and was below the reporting limit (RL) and/or not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: MW-6 (480-171236-2) and MW-12 (480-171236-3).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-536617 recovered above the upper control limit for Acetone. The samples associated with this CCV were below the reporting limit (RL) and/or non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: MW-6 (480-171236-2) and MW-12 (480-171236-3).

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-536831 recovered outside acceptance criteria, low biased, for Cyclohexane and Methylcyclohexane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for this analyte, the data have been reported. The associated sample is: MW-5 (480-171236-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-171236-1
Project/Site: Benchmark - Despatch site

Client Sample ID: MW-5 — Lab Sample ID: 480-171236-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.9	J	10	3.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.41	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.56	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 480-171236-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.4	J *	10	3.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.43	J	1.0	0.36	ug/L	1		8260C	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 480-171236-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	J *	10	3.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	31		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	4.2		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-171236-1

Client Sample ID: MW-5
Date Collected: 06/11/20 12:00
Date Received: 06/16/20 11:20

Lab Sample ID: 480-171236-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/18/20 11:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/18/20 11:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/18/20 11:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/18/20 11:29	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/18/20 11:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/18/20 11:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/18/20 11:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/18/20 11:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/18/20 11:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/18/20 11:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/18/20 11:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/18/20 11:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/18/20 11:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/18/20 11:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/18/20 11:29	1
2-Hexanone	ND		5.0	1.2	ug/L			06/18/20 11:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/18/20 11:29	1
Acetone	**6.9**	**J**	10	3.0	ug/L			06/18/20 11:29	1
Benzene	ND		1.0	0.41	ug/L			06/18/20 11:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/18/20 11:29	1
Bromoform	ND		1.0	0.26	ug/L			06/18/20 11:29	1
Bromomethane	ND		1.0	0.69	ug/L			06/18/20 11:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/18/20 11:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/18/20 11:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/18/20 11:29	1
Chloroethane	ND		1.0	0.32	ug/L			06/18/20 11:29	1
Chloroform	ND		1.0	0.34	ug/L			06/18/20 11:29	1
Chloromethane	ND		1.0	0.35	ug/L			06/18/20 11:29	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/18/20 11:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/18/20 11:29	1
Cyclohexane	ND		1.0	0.18	ug/L			06/18/20 11:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/18/20 11:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/18/20 11:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/18/20 11:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/18/20 11:29	1
Methyl acetate	ND		2.5	1.3	ug/L			06/18/20 11:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/18/20 11:29	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/18/20 11:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/18/20 11:29	1
Styrene	ND		1.0	0.73	ug/L			06/18/20 11:29	1
Tetrachloroethene	**0.41**	**J**	1.0	0.36	ug/L			06/18/20 11:29	1
Toluene	ND		1.0	0.51	ug/L			06/18/20 11:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/18/20 11:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/18/20 11:29	1
Trichloroethene	**0.56**	**J**	1.0	0.46	ug/L			06/18/20 11:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/18/20 11:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/18/20 11:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/18/20 11:29	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-171236-1

Client Sample ID: MW-5
Date Collected: 06/11/20 12:00
Date Received: 06/16/20 11:20

Lab Sample ID: 480-171236-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		06/18/20 11:29	1
4-Bromofluorobenzene (Surr)	88		73 - 120		06/18/20 11:29	1
Dibromofluoromethane (Surr)	111		75 - 123		06/18/20 11:29	1
Toluene-d8 (Surr)	106		80 - 120		06/18/20 11:29	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-171236-1

Client Sample ID: MW-6
Date Collected: 06/11/20 13:00
Date Received: 06/16/20 11:20

Lab Sample ID: 480-171236-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/17/20 14:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/17/20 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/17/20 14:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/17/20 14:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/17/20 14:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/17/20 14:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/17/20 14:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/17/20 14:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/17/20 14:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/17/20 14:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/17/20 14:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/17/20 14:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/17/20 14:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/17/20 14:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/17/20 14:17	1
2-Hexanone	ND		5.0	1.2	ug/L			06/17/20 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/17/20 14:17	1
Acetone	**5.4**	**J ***	10	3.0	ug/L			06/17/20 14:17	1
Benzene	ND		1.0	0.41	ug/L			06/17/20 14:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/17/20 14:17	1
Bromoform	ND		1.0	0.26	ug/L			06/17/20 14:17	1
Bromomethane	ND		1.0	0.69	ug/L			06/17/20 14:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/17/20 14:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/17/20 14:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/17/20 14:17	1
Chloroethane	ND		1.0	0.32	ug/L			06/17/20 14:17	1
Chloroform	ND		1.0	0.34	ug/L			06/17/20 14:17	1
Chloromethane	ND		1.0	0.35	ug/L			06/17/20 14:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/17/20 14:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/17/20 14:17	1
Cyclohexane	ND		1.0	0.18	ug/L			06/17/20 14:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/17/20 14:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/17/20 14:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/17/20 14:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/17/20 14:17	1
Methyl acetate	ND		2.5	1.3	ug/L			06/17/20 14:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/17/20 14:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/17/20 14:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/17/20 14:17	1
Styrene	ND		1.0	0.73	ug/L			06/17/20 14:17	1
Tetrachloroethene	**0.43**	**J**	1.0	0.36	ug/L			06/17/20 14:17	1
Toluene	ND		1.0	0.51	ug/L			06/17/20 14:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/17/20 14:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/17/20 14:17	1
Trichloroethene	ND		1.0	0.46	ug/L			06/17/20 14:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/17/20 14:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/17/20 14:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/17/20 14:17	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-171236-1

Client Sample ID: MW-6
Date Collected: 06/11/20 13:00
Date Received: 06/16/20 11:20

Lab Sample ID: 480-171236-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		06/17/20 14:17	1
4-Bromofluorobenzene (Surr)	90		73 - 120		06/17/20 14:17	1
Dibromofluoromethane (Surr)	109		75 - 123		06/17/20 14:17	1
Toluene-d8 (Surr)	98		80 - 120		06/17/20 14:17	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-171236-1

Client Sample ID: MW-12
Date Collected: 06/11/20 14:00
Date Received: 06/16/20 11:20

Lab Sample ID: 480-171236-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/17/20 14:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/17/20 14:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/17/20 14:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/17/20 14:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/17/20 14:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/17/20 14:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/17/20 14:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/17/20 14:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/17/20 14:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/17/20 14:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/17/20 14:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/17/20 14:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/17/20 14:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/17/20 14:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/17/20 14:42	1
2-Hexanone	ND		5.0	1.2	ug/L			06/17/20 14:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/17/20 14:42	1
Acetone	**5.1**	**J ***	10	3.0	ug/L			06/17/20 14:42	1
Benzene	ND		1.0	0.41	ug/L			06/17/20 14:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/17/20 14:42	1
Bromoform	ND		1.0	0.26	ug/L			06/17/20 14:42	1
Bromomethane	ND		1.0	0.69	ug/L			06/17/20 14:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/17/20 14:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/17/20 14:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/17/20 14:42	1
Chloroethane	ND		1.0	0.32	ug/L			06/17/20 14:42	1
Chloroform	ND		1.0	0.34	ug/L			06/17/20 14:42	1
Chloromethane	ND		1.0	0.35	ug/L			06/17/20 14:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/17/20 14:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/17/20 14:42	1
Cyclohexane	ND		1.0	0.18	ug/L			06/17/20 14:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/17/20 14:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/17/20 14:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/17/20 14:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/17/20 14:42	1
Methyl acetate	ND		2.5	1.3	ug/L			06/17/20 14:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/17/20 14:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/17/20 14:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/17/20 14:42	1
Styrene	ND		1.0	0.73	ug/L			06/17/20 14:42	1
Tetrachloroethene	**31**		1.0	0.36	ug/L			06/17/20 14:42	1
Toluene	ND		1.0	0.51	ug/L			06/17/20 14:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/17/20 14:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/17/20 14:42	1
Trichloroethene	**4.2**		1.0	0.46	ug/L			06/17/20 14:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/17/20 14:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/17/20 14:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/17/20 14:42	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-171236-1

Client Sample ID: MW-12
Date Collected: 06/11/20 14:00
Date Received: 06/16/20 11:20

Lab Sample ID: 480-171236-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		06/17/20 14:42	1
4-Bromofluorobenzene (Surr)	99		73 - 120		06/17/20 14:42	1
Dibromofluoromethane (Surr)	108		75 - 123		06/17/20 14:42	1
Toluene-d8 (Surr)	99		80 - 120		06/17/20 14:42	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-171236-1
Project/Site: Benchmark - Despatch site

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-171236-1	MW-5	112	88	111	106
480-171236-2	MW-6	101	90	109	98
480-171236-3	MW-12	100	99	108	99
LCS 480-536617/5	Lab Control Sample	99	99	106	100
LCS 480-536831/5	Lab Control Sample	109	106	108	98
MB 480-536617/7	Method Blank	97	93	104	96
MB 480-536831/7	Method Blank	111	105	110	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-536617/7
Matrix: Water
Analysis Batch: 536617

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/17/20 11:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/17/20 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/17/20 11:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/17/20 11:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/17/20 11:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/17/20 11:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/17/20 11:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/17/20 11:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/17/20 11:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/17/20 11:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/17/20 11:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/17/20 11:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/17/20 11:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/17/20 11:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/17/20 11:06	1
2-Hexanone	ND		5.0	1.2	ug/L			06/17/20 11:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/17/20 11:06	1
Acetone	ND		10	3.0	ug/L			06/17/20 11:06	1
Benzene	ND		1.0	0.41	ug/L			06/17/20 11:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/17/20 11:06	1
Bromoform	ND		1.0	0.26	ug/L			06/17/20 11:06	1
Bromomethane	ND		1.0	0.69	ug/L			06/17/20 11:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/17/20 11:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/17/20 11:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/17/20 11:06	1
Chloroethane	ND		1.0	0.32	ug/L			06/17/20 11:06	1
Chloroform	ND		1.0	0.34	ug/L			06/17/20 11:06	1
Chloromethane	ND		1.0	0.35	ug/L			06/17/20 11:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/17/20 11:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/17/20 11:06	1
Cyclohexane	ND		1.0	0.18	ug/L			06/17/20 11:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/17/20 11:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/17/20 11:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/17/20 11:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/17/20 11:06	1
Methyl acetate	ND		2.5	1.3	ug/L			06/17/20 11:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/17/20 11:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/17/20 11:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/17/20 11:06	1
Styrene	ND		1.0	0.73	ug/L			06/17/20 11:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/17/20 11:06	1
Toluene	ND		1.0	0.51	ug/L			06/17/20 11:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/17/20 11:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/17/20 11:06	1
Trichloroethene	ND		1.0	0.46	ug/L			06/17/20 11:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/17/20 11:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/17/20 11:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/17/20 11:06	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-536617/7
Matrix: Water
Analysis Batch: 536617

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		06/17/20 11:06	1
4-Bromofluorobenzene (Surr)	93		73 - 120		06/17/20 11:06	1
Dibromofluoromethane (Surr)	104		75 - 123		06/17/20 11:06	1
Toluene-d8 (Surr)	96		80 - 120		06/17/20 11:06	1

Lab Sample ID: LCS 480-536617/5
Matrix: Water
Analysis Batch: 536617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.4		ug/L		102	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.4		ug/L		97	61 - 148
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	25.3		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	24.3		ug/L		97	66 - 127
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.1		ug/L		88	56 - 134
1,2-Dibromoethane	25.0	24.9		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	25.1		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	28.9		ug/L		115	76 - 120
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 120
2-Butanone (MEK)	125	136		ug/L		109	57 - 140
2-Hexanone	125	120		ug/L		96	65 - 127
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	71 - 125
Acetone	125	220	*	ug/L		176	56 - 142
Benzene	25.0	26.9		ug/L		108	71 - 124
Bromodichloromethane	25.0	27.7		ug/L		111	80 - 122
Bromoform	25.0	26.4		ug/L		106	61 - 132
Bromomethane	25.0	23.6		ug/L		94	55 - 144
Carbon disulfide	25.0	25.3		ug/L		101	59 - 134
Carbon tetrachloride	25.0	25.2		ug/L		101	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120
Chloroethane	25.0	24.5		ug/L		98	69 - 136
Chloroform	25.0	25.7		ug/L		103	73 - 127
Chloromethane	25.0	25.4		ug/L		102	68 - 124
cis-1,2-Dichloroethene	25.0	27.0		ug/L		108	74 - 124
cis-1,3-Dichloropropene	25.0	29.9		ug/L		120	74 - 124
Cyclohexane	25.0	23.2		ug/L		93	59 - 135
Dibromochloromethane	25.0	27.1		ug/L		108	75 - 125
Dichlorodifluoromethane	25.0	23.9		ug/L		96	59 - 135
Ethylbenzene	25.0	23.2		ug/L		93	77 - 123
Isopropylbenzene	25.0	25.0		ug/L		100	77 - 122
Methyl acetate	50.0	59.4		ug/L		119	74 - 133
Methyl tert-butyl ether	25.0	29.1		ug/L		116	77 - 120
Methylcyclohexane	25.0	23.7		ug/L		95	68 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-536617/5
Matrix: Water
Analysis Batch: 536617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	28.7		ug/L		115	75 - 124
Styrene	25.0	24.0		ug/L		96	80 - 120
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122
Toluene	25.0	24.9		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	73 - 127
trans-1,3-Dichloropropene	25.0	27.1		ug/L		108	80 - 120
Trichloroethene	25.0	26.6		ug/L		106	74 - 123
Trichlorofluoromethane	25.0	24.0		ug/L		96	62 - 150
Vinyl chloride	25.0	23.7		ug/L		95	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 480-536831/7
Matrix: Water
Analysis Batch: 536831

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/18/20 10:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/18/20 10:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/18/20 10:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/18/20 10:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/18/20 10:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/18/20 10:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/18/20 10:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/18/20 10:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/18/20 10:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/18/20 10:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/18/20 10:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/18/20 10:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/18/20 10:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/18/20 10:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/18/20 10:56	1
2-Hexanone	ND		5.0	1.2	ug/L			06/18/20 10:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/18/20 10:56	1
Acetone	ND		10	3.0	ug/L			06/18/20 10:56	1
Benzene	ND		1.0	0.41	ug/L			06/18/20 10:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/18/20 10:56	1
Bromoform	ND		1.0	0.26	ug/L			06/18/20 10:56	1
Bromomethane	ND		1.0	0.69	ug/L			06/18/20 10:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/18/20 10:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/18/20 10:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/18/20 10:56	1
Chloroethane	ND		1.0	0.32	ug/L			06/18/20 10:56	1
Chloroform	ND		1.0	0.34	ug/L			06/18/20 10:56	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-536831/7
Matrix: Water
Analysis Batch: 536831

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/18/20 10:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/18/20 10:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/18/20 10:56	1
Cyclohexane	ND		1.0	0.18	ug/L			06/18/20 10:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/18/20 10:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/18/20 10:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/18/20 10:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/18/20 10:56	1
Methyl acetate	ND		2.5	1.3	ug/L			06/18/20 10:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/18/20 10:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/18/20 10:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/18/20 10:56	1
Styrene	ND		1.0	0.73	ug/L			06/18/20 10:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/18/20 10:56	1
Toluene	ND		1.0	0.51	ug/L			06/18/20 10:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/18/20 10:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/18/20 10:56	1
Trichloroethene	ND		1.0	0.46	ug/L			06/18/20 10:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/18/20 10:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/18/20 10:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/18/20 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*06/18/20 10:56*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*06/18/20 10:56*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*06/18/20 10:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/18/20 10:56*	*1*

Lab Sample ID: LCS 480-536831/5
Matrix: Water
Analysis Batch: 536831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	19.7		ug/L		79	61 - 148
1,1,2-Trichloroethane	25.0	23.1		ug/L		93	76 - 122
1,1-Dichloroethane	25.0	21.9		ug/L		88	77 - 120
1,1-Dichloroethene	25.0	20.0		ug/L		80	66 - 127
1,2,4-Trichlorobenzene	25.0	23.3		ug/L		93	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	56 - 134
1,2-Dibromoethane	25.0	25.0		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	80 - 124
1,2-Dichloroethane	25.0	26.7		ug/L		107	75 - 120
1,2-Dichloropropane	25.0	21.9		ug/L		87	76 - 120
1,3-Dichlorobenzene	25.0	22.4		ug/L		90	77 - 120
1,4-Dichlorobenzene	25.0	22.3		ug/L		89	80 - 120
2-Butanone (MEK)	125	129		ug/L		103	57 - 140

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-536831/5
Matrix: Water
Analysis Batch: 536831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	125	126		ug/L		101	65 - 127
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	71 - 125
Acetone	125	146		ug/L		117	56 - 142
Benzene	25.0	21.3		ug/L		85	71 - 124
Bromodichloromethane	25.0	25.9		ug/L		104	80 - 122
Bromoform	25.0	28.2		ug/L		113	61 - 132
Bromomethane	25.0	25.3		ug/L		101	55 - 144
Carbon disulfide	25.0	19.7		ug/L		79	59 - 134
Carbon tetrachloride	25.0	24.3		ug/L		97	72 - 134
Chlorobenzene	25.0	21.9		ug/L		88	80 - 120
Chloroethane	25.0	25.3		ug/L		101	69 - 136
Chloroform	25.0	23.9		ug/L		95	73 - 127
Chloromethane	25.0	21.2		ug/L		85	68 - 124
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	74 - 124
cis-1,3-Dichloropropene	25.0	24.2		ug/L		97	74 - 124
Cyclohexane	25.0	18.8		ug/L		75	59 - 135
Dibromochloromethane	25.0	26.2		ug/L		105	75 - 125
Dichlorodifluoromethane	25.0	20.5		ug/L		82	59 - 135
Ethylbenzene	25.0	22.0		ug/L		88	77 - 123
Isopropylbenzene	25.0	21.2		ug/L		85	77 - 122
Methyl acetate	50.0	48.7		ug/L		97	74 - 133
Methyl tert-butyl ether	25.0	25.1		ug/L		100	77 - 120
Methylcyclohexane	25.0	18.7		ug/L		75	68 - 134
Methylene Chloride	25.0	21.7		ug/L		87	75 - 124
Styrene	25.0	23.3		ug/L		93	80 - 120
Tetrachloroethene	25.0	22.2		ug/L		89	74 - 122
Toluene	25.0	21.0		ug/L		84	80 - 122
trans-1,2-Dichloroethene	25.0	21.5		ug/L		86	73 - 127
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	80 - 120
Trichloroethene	25.0	22.4		ug/L		89	74 - 123
Trichlorofluoromethane	25.0	27.4		ug/L		110	62 - 150
Vinyl chloride	25.0	22.4		ug/L		90	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-171236-1
Project/Site: Benchmark - Despatch site

GC/MS VOA

Analysis Batch: 536617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171236-2	MW-6	Total/NA	Water	8260C	
480-171236-3	MW-12	Total/NA	Water	8260C	
MB 480-536617/7	Method Blank	Total/NA	Water	8260C	
LCS 480-536617/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 536831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171236-1	MW-5	Total/NA	Water	8260C	
MB 480-536831/7	Method Blank	Total/NA	Water	8260C	
LCS 480-536831/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-171236-1
Project/Site: Benchmark - Despatch site

Client Sample ID: MW-5
Lab Sample ID: 480-171236-1
Date Collected: 06/11/20 12:00
Matrix: Water
Date Received: 06/16/20 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536831	06/18/20 11:29	OMI	TAL BUF

Client Sample ID: MW-6
Lab Sample ID: 480-171236-2
Date Collected: 06/11/20 13:00
Matrix: Water
Date Received: 06/16/20 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536617	06/17/20 14:17	CRL	TAL BUF

Client Sample ID: MW-12
Lab Sample ID: 480-171236-3
Date Collected: 06/11/20 14:00
Matrix: Water
Date Received: 06/16/20 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	536617	06/17/20 14:42	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-171236-1
Project/Site: Benchmark - Despatch site

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-171236-1
Project/Site: Benchmark - Despatch site

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-171236-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-171236-1	MW-5	Water	06/11/20 12:00	06/16/20 11:20	
480-171236-2	MW-6	Water	06/11/20 13:00	06/16/20 11:20	
480-171236-3	MW-12	Water	06/11/20 14:00	06/16/20 11:20	

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 243350

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Lori Bixler	Site Contact: Nick Sura	Date: 6/15/20	COC No:
Company Name: Benchmark EES	Tel/Fax: 716-713-3937	Lab Contact: Brian Fisher	Carrier:	____ of ____ COCs
Address: 2558 Hamburg Tpke	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo, NY 14218	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-713-3937	TAT if different from Below ____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: DeSpatch	☐ 1 week			
Site: 115 N Washington St	☐ 2 days			Job / SDG No.:
P O # B0040-062-400	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TCL VOC's	Sample Specific Notes:
MW-5	6/11/20	12:00	G	GW	3			X	
MW-6	6/11/20	13:00	G	GW	3			X	
MW-12	6/11/20	14:00	G	GW	3			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____ 2

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
Cat B deliverables

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 3.4 Corr'd: ____ | Therm ID No.: # ISLE

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Benchmark	6/15/20 1800			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[illegible]	TA	6/16/20 1120

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-171236-1

Login Number: 171236

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Benchmark
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-178885-1
Client Project/Site: Benchmark - Despatch site

For:
Benchmark Env. Eng. & Science, PLLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Ms. Lori E. Riker

Authorized for release by:
12/8/2020 9:20:38 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Job ID: 480-178885-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-178885-1

Comments
No additional comments.

Receipt
The samples were received on 12/2/2020 10:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-561827 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-6 (480-178885-1), MW-5 (480-178885-2) and MW-12 (480-178885-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Client Sample ID: MW-6 — Lab Sample ID: 480-178885-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.97	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.80	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 480-178885-2

No Detections.

Client Sample ID: MW-12 — Lab Sample ID: 480-178885-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	36		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	5.3		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-6
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/20 01:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/20 01:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/20 01:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/20 01:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/20 01:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/20 01:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/20 01:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/20 01:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/20 01:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/20 01:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/20 01:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/20 01:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/20 01:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/20 01:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/20 01:02	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/20 01:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/20 01:02	1
Acetone	ND		10	3.0	ug/L			12/04/20 01:02	1
Benzene	ND		1.0	0.41	ug/L			12/04/20 01:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/20 01:02	1
Bromoform	ND		1.0	0.26	ug/L			12/04/20 01:02	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/20 01:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/20 01:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/20 01:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/20 01:02	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/20 01:02	1
Chloroform	ND		1.0	0.34	ug/L			12/04/20 01:02	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/20 01:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/04/20 01:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/20 01:02	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/20 01:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/20 01:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/20 01:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/20 01:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/20 01:02	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/20 01:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/20 01:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/20 01:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/20 01:02	1
Styrene	ND		1.0	0.73	ug/L			12/04/20 01:02	1
Tetrachloroethene	**0.97**	**J**	1.0	0.36	ug/L			12/04/20 01:02	1
Toluene	ND		1.0	0.51	ug/L			12/04/20 01:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/20 01:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/20 01:02	1
Trichloroethene	**0.80**	**J**	1.0	0.46	ug/L			12/04/20 01:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/20 01:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/20 01:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/20 01:02	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-6
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		12/04/20 01:02	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/04/20 01:02	1
Dibromofluoromethane (Surr)	105		75 - 123		12/04/20 01:02	1
Toluene-d8 (Surr)	99		80 - 120		12/04/20 01:02	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-5
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/20 01:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/20 01:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/20 01:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/20 01:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/20 01:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/20 01:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/20 01:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/20 01:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/20 01:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/20 01:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/20 01:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/20 01:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/20 01:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/20 01:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/20 01:27	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/20 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/20 01:27	1
Acetone	ND		10	3.0	ug/L			12/04/20 01:27	1
Benzene	ND		1.0	0.41	ug/L			12/04/20 01:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/20 01:27	1
Bromoform	ND		1.0	0.26	ug/L			12/04/20 01:27	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/20 01:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/20 01:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/20 01:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/20 01:27	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/20 01:27	1
Chloroform	ND		1.0	0.34	ug/L			12/04/20 01:27	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/20 01:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/04/20 01:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/20 01:27	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/20 01:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/20 01:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/20 01:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/20 01:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/20 01:27	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/20 01:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/20 01:27	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/20 01:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/20 01:27	1
Styrene	ND		1.0	0.73	ug/L			12/04/20 01:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/04/20 01:27	1
Toluene	ND		1.0	0.51	ug/L			12/04/20 01:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/20 01:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/20 01:27	1
Trichloroethene	ND		1.0	0.46	ug/L			12/04/20 01:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/20 01:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/20 01:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/20 01:27	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-5
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/04/20 01:27	1
4-Bromofluorobenzene (Surr)	96		73 - 120		12/04/20 01:27	1
Dibromofluoromethane (Surr)	103		75 - 123		12/04/20 01:27	1
Toluene-d8 (Surr)	98		80 - 120		12/04/20 01:27	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-12
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/20 01:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/20 01:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/20 01:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/20 01:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/20 01:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/20 01:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/20 01:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/20 01:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/20 01:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/20 01:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/20 01:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/20 01:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/20 01:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/20 01:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/20 01:52	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/20 01:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/20 01:52	1
Acetone	ND		10	3.0	ug/L			12/04/20 01:52	1
Benzene	ND		1.0	0.41	ug/L			12/04/20 01:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/20 01:52	1
Bromoform	ND		1.0	0.26	ug/L			12/04/20 01:52	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/20 01:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/20 01:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/20 01:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/20 01:52	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/20 01:52	1
Chloroform	ND		1.0	0.34	ug/L			12/04/20 01:52	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/20 01:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/04/20 01:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/20 01:52	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/20 01:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/20 01:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/20 01:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/20 01:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/20 01:52	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/20 01:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/20 01:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/20 01:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/20 01:52	1
Styrene	ND		1.0	0.73	ug/L			12/04/20 01:52	1
Tetrachloroethene	**36**		1.0	0.36	ug/L			12/04/20 01:52	1
Toluene	ND		1.0	0.51	ug/L			12/04/20 01:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/20 01:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/20 01:52	1
Trichloroethene	**5.3**		1.0	0.46	ug/L			12/04/20 01:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/20 01:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/20 01:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/20 01:52	1

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-12
Date Collected: 12/01/20 00:00
Date Received: 12/02/20 10:20

Lab Sample ID: 480-178885-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		12/04/20 01:52	1
4-Bromofluorobenzene (Surr)	97		73 - 120		12/04/20 01:52	1
Dibromofluoromethane (Surr)	105		75 - 123		12/04/20 01:52	1
Toluene-d8 (Surr)	96		80 - 120		12/04/20 01:52	1

Surrogate Summary

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-178885-1	MW-6	108	102	105	99
480-178885-2	MW-5	105	96	103	98
480-178885-3	MW-12	107	97	105	96
LCS 480-561827/5	Lab Control Sample	105	101	101	98
MB 480-561827/7	Method Blank	106	97	102	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-561827/7
Matrix: Water
Analysis Batch: 561827

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/03/20 22:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/20 22:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/20 22:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/20 22:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/20 22:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/20 22:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/20 22:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/20 22:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/20 22:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/20 22:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/20 22:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/20 22:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/20 22:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/20 22:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/20 22:56	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/20 22:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/20 22:56	1
Acetone	ND		10	3.0	ug/L			12/03/20 22:56	1
Benzene	ND		1.0	0.41	ug/L			12/03/20 22:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/20 22:56	1
Bromoform	ND		1.0	0.26	ug/L			12/03/20 22:56	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/20 22:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/20 22:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/20 22:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/20 22:56	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/20 22:56	1
Chloroform	ND		1.0	0.34	ug/L			12/03/20 22:56	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/20 22:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/20 22:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/20 22:56	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/20 22:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/20 22:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/20 22:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/20 22:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/20 22:56	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/20 22:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/20 22:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/20 22:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/20 22:56	1
Styrene	ND		1.0	0.73	ug/L			12/03/20 22:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/20 22:56	1
Toluene	ND		1.0	0.51	ug/L			12/03/20 22:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/20 22:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/20 22:56	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/20 22:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/20 22:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/20 22:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/20 22:56	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-561827/7
Matrix: Water
Analysis Batch: 561827

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		12/03/20 22:56	1
4-Bromofluorobenzene (Surr)	97		73 - 120		12/03/20 22:56	1
Dibromofluoromethane (Surr)	102		75 - 123		12/03/20 22:56	1
Toluene-d8 (Surr)	95		80 - 120		12/03/20 22:56	1

Lab Sample ID: LCS 480-561827/5
Matrix: Water
Analysis Batch: 561827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.1		ug/L		84	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.0		ug/L		112	61 - 148
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	25.9		ug/L		103	66 - 127
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.5		ug/L		82	56 - 134
1,2-Dibromoethane	25.0	24.1		ug/L		96	77 - 120
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	25.7		ug/L		103	75 - 120
1,2-Dichloropropane	25.0	25.0		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2-Butanone (MEK)	125	118		ug/L		95	57 - 140
2-Hexanone	125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	117		ug/L		93	56 - 142
Benzene	25.0	24.9		ug/L		100	71 - 124
Bromodichloromethane	25.0	26.3		ug/L		105	80 - 122
Bromoform	25.0	22.2		ug/L		89	61 - 132
Bromomethane	25.0	22.8		ug/L		91	55 - 144
Carbon disulfide	25.0	25.7		ug/L		103	59 - 134
Carbon tetrachloride	25.0	26.3		ug/L		105	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120
Chloroethane	25.0	23.1		ug/L		93	69 - 136
Chloroform	25.0	24.1		ug/L		96	73 - 127
Chloromethane	25.0	20.2		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	74 - 124
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	74 - 124
Cyclohexane	25.0	26.6		ug/L		106	59 - 135
Dibromochloromethane	25.0	25.7		ug/L		103	75 - 125
Dichlorodifluoromethane	25.0	26.3		ug/L		105	59 - 135
Ethylbenzene	25.0	25.4		ug/L		101	77 - 123
Isopropylbenzene	25.0	26.0		ug/L		104	77 - 122
Methyl acetate	50.0	43.8		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	25.9		ug/L		104	77 - 120
Methylcyclohexane	25.0	25.9		ug/L		104	68 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-561827/5
Matrix: Water
Analysis Batch: 561827

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			25.0	24.7		ug/L		99	75 - 124		
Styrene			25.0	27.0		ug/L		108	80 - 120		
Tetrachloroethene			25.0	25.6		ug/L		102	74 - 122		
Toluene			25.0	24.7		ug/L		99	80 - 122		
trans-1,2-Dichloroethene			25.0	25.4		ug/L		102	73 - 127		
trans-1,3-Dichloropropene			25.0	23.4		ug/L		94	80 - 120		
Trichloroethene			25.0	25.4		ug/L		101	74 - 123		
Trichlorofluoromethane			25.0	25.7		ug/L		103	62 - 150		
Vinyl chloride			25.0	20.8		ug/L		83	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

QC Association Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

GC/MS VOA

Analysis Batch: 561827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-178885-1	MW-6	Total/NA	Water	8260C	
480-178885-2	MW-5	Total/NA	Water	8260C	
480-178885-3	MW-12	Total/NA	Water	8260C	
MB 480-561827/7	Method Blank	Total/NA	Water	8260C	
LCS 480-561827/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Benchmark Env. Eng. & Science, PLLC
Project/Site: Benchmark - Despatch site

Job ID: 480-178885-1

Client Sample ID: MW-6

Lab Sample ID: 480-178885-1

Date Collected: 12/01/20 00:00
Matrix: Water
Date Received: 12/02/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561827	12/04/20 01:02	CRL	TAL BUF

Client Sample ID: MW-5

Lab Sample ID: 480-178885-2

Date Collected: 12/01/20 00:00
Matrix: Water
Date Received: 12/02/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561827	12/04/20 01:27	CRL	TAL BUF

Client Sample ID: MW-12

Lab Sample ID: 480-178885-3

Date Collected: 12/01/20 00:00
Matrix: Water
Date Received: 12/02/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	561827	12/04/20 01:52	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Benchmark Env. Eng. & Science, PLLC
Job ID: 480-178885-1
Project/Site: Benchmark - Despatch site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-178885-1	MW-6	Water	12/01/20 00:00	12/02/20 10:20	
480-178885-2	MW-5	Water	12/01/20 00:00	12/02/20 10:20	
480-178885-3	MW-12	Water	12/01/20 00:00	12/02/20 10:20	

Chain of Custody Record

Client Information	Sampler: Nick Suraci	Lab PM: Brian Fischer	Carrier Tracking No(s):	COC No:
Client Contact: Nick Suraci	Phone: 716-713-3937	E-Mail:	State of Origin:	Page:
Company: Benchmark Environmental Engineering		Accreditations Required (See note):		Job #:
Address: 2558 Hamburg Tpke #	Due Date Requested:			
City: Buffalo NY 14218	TAT Requested (days): Standard			
State, Zip:				
Phone: 716 713-3937	PO #: B0040-002-400			
Email: LRiker@BM-Tlc.com	WO #:			
Project Name: Despatch	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCL VOC's	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-6	12/1/20	10:00	6	W			X		
MW-5	↓	11:00	6	W			X		
MW-12	↓	12:00	6	W			X		

480-178885 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Cat B, HASP, Level 4	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12/2/20 10:20	BMTL			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/2/20 1020	Company TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1 #1

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Benchmark Env. Eng. & Science, PLLC

Job Number: 480-178885-1

Login Number: 178885

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	