American Felt & Filter Fabric Company (AFFCO)

NEW WINDSOR, NEW YORK

ANNUAL PERIODIC REVIEW REPORT AND ENGINEERING CERTIFICATION Site No. 336036

Period: August 2, 2022 – August 2, 2023

Prepared by

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August 2023

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CERTIFICATIONS

I, Arnold F. Fleming, PE, certify that I am currently a NYS registered professional engineer and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

050411

NYS Professional Engineer #

8/15/23

Date

Arnold F. Fleming

Signature

EXECUTIVE SUMMARY

This Periodic Review Report (PRR) is for the AFFCO Site (No. 3-36-036) remediated in 2012 under a New York State Consent Order Index (W3-0784-04-06) administered by the New York State Department of Environmental Conservation (NYSDEC). The PRR documents compliance with the Site Management Plan (SMP) for the reporting period from August 2, 2022 through August 2, 2023. The AFFCO Site is located at 361 Walsh Avenue, New Windsor, Orange County, New York.

The SMP outlines the requirements to be followed after remediation in order to ensure there is no exposure to any remaining contamination. The SMP includes both Engineering Controls and Institutional Controls to prevent exposure that are specified within an Environmental Easement. The Environmental Easement consists of two areas each with its own Engineering Control: (1) Piano Felt Building and attendant Sub-slab Depressurization System (SSDS) and (2) the Soil Management Area and attendant soil cover. Both engineering controls were inspected on July 13, 2023, and found to be in compliance with the SMP requirements. The Site also adheres to the Institutional Control requirements that are part of the Environmental Easement. Therefore, AFFCO is in compliance with the SMP requirements for the reporting period.

1.0 INTRODUCTION

This PRR is for the AFFCO Site (No. 3-36-036) remediated under a New York State Consent Order Index (W3-0784-04-06) administered by NYSDEC. The PRR documents compliance with the SMP for the reporting period from August 2, 2022 through August 2, 2023. The Site is in compliance with the SMP requirements for the reporting period.

AFFCO entered into the Consent Order with NYSDEC to remediate an area impacted by releases of 1,1,1-Trichloroethane (TCA) when the mandate was executed on November 17, 2004. Figure 1 shows the general Site Layout, Site boundaries, and Environmental Easement. Figure 2 is a Site plan depicting the remediated area.

Subsequent to remediation, NYSDEC created an Environmental Easement with requirements to prevent exposure to any remaining contamination. The Environmental Easement contains both Engineering Controls and Institutional Controls as protective measures to be followed to prevent exposure. The Environmental Easement is part of the Site Management Plan.

The Environmental Easement consists of two sub areas: (1) the Piano Felt Building and (2) a Soil Management Area. The Piano Felt Building contains a Sub-slab Depressurization System (SSDS) that mitigates potential vapor impacts. The Soil Management Area was remediated by a combination of excavation and *in situ* chemical oxidation. The boundaries of the Environmental Easement are more fully described in the metes and bounds description included in the Environmental Easement description (Appendix A).

The Site manufactured felt for over 100 years. One product line was the manufacture of felt filter face masks for particulates that used TCA in the production process. Site investigations began when traces of TCA appeared in water samples collected from a storm water outfall that discharged to the stream that borders the Site on the north, Quassaick Creek. The Site was subsequently placed on NYSDEC's List of Inactive Hazardous Waste Sites in 1991 (Site Code 3-36-036) due to the potential threat to the creek. The source of TCA was believed to from past leaks and spills from a process area and drum storage area near the former Feutron Building where the TCA was used and stored and where remediation took place (Figure 2). The facility stopped using TCA in 1992 when its use in manufacture ended.

Remediation took place from July 2012 through September 2012. The first remedial element was *in situ* chemical injection using the patented RemMetrik *in situ* treatment process in July 2012. Injection treated soils below the water table at approximately 10 feet below grade to 15 feet below grade in the 50-ft. by 50-ft. remediation area (Figure 2). Approximately 13,200 gallons of activated sodium persulfate were injected between July 9 and July 26, 2012. This was followed by a remedial excavation to approximately 11 feet below grade from August 27 through September 9, 2012.

The Site cleanup standards for soils are the Part 375 Commercial Use Soil Cleanup Objectives (CUSCO). Nearly all of the post-treatment soils met the more stringent Residential Use SCOs. All post-treatment and endpoint samples met the CUSCOs.

The cleanup goal for groundwater is NYSDEC TOGS 1.1.1, (TOGS) Class GA, Ambient Water Quality Standards and Guidance Values (AWQS) or asymptotic levels of VOCs in groundwater

following acceptable levels of treatment.

TCA concentrations in groundwater have not met the TOGs standards at this point, but have shown order-of-magnitude reductions and appear to have reached asymptotic levels and in some instances appear to still be decreasing. Most wells have only a few detected VOC compounds and fewer still have other VOCs above TOGS GA AWQS.

The groundwater sampling results from the most recent sampling event (Q3-Q4 2022) show an overall net sustained decreasing or level trend for TCA in all wells both within and outside the treatment area. TCA and Total VOCs show order-of-magnitude reductions in all sampled wells compared to pre-treatment maximums.

Comparison of the maximum pre-treatment (or immediate post-treatment) concentrations to the Q3-Q4 2022 results show very substantial reductions. These represent sustained reductions 10 years (2022-2012) after treatment. All told, the average weighted reduction for TCA and Total VOCs compared with pre-treatment levels is 94 percent for TCA and 84 percent for Total VOCs as of the 3Q-4Q 2022 sampling event. No material rebound in groundwater concentrations approaching pre-treatment levels has been observed in the years following remediation; levels remain approximately an order-of-magnitude or more below pre-treatment concentrations.

2.0 SITE OVERVIEW

Section 2 describes the general Site characteristics and conditions prior to remediation.

2.1 Site Location and Description

The Site is an active manufacturing facility located on the north side of Walsh Avenue, west of River Road in New Windsor, New York (Figure 1). The Site lies on the south side of Quassaick Creek, which flows into the Hudson River approximately 0.2 miles east of the Site. The surrounding area has a mixture of land uses, including industrial, commercial and residential. Potable water is supplied by the New Windsor Water Department.

The entire property occupies 23.185 acres, much of it is wooded and undeveloped. The Site operational area occupies approximately nine acres. The nine-acre operational area includes several large buildings, parking, open lawn and wooded areas, and encompasses the Environmental Easement. The Environmental Easement covers 0.5454 acres and is made up of the Soil Management Area (0.3845 acres) and the Piano Felt Building SSDS area (0.1609 acres) (Figure 1). The Environmental Easement is more fully described in the metes and bounds description that is part of the Environmental Easement (Appendix A).

2.2 Geology and Hydrological Conditions

2.2.1 Geological Conditions

The lithology within the treatment area consists of fill over alluvium underlain by glacial till. The soils consist of a mixture of fill over native soils. The fill lies from approximately 2 to 8 feet below grade and consists of a mixture of ash, cinders, brick, coal and concrete fragments in a silty sand and sandy silt matrix. This is underlain by grey to black silty sands and sandy silt. Below lies a compact glacial till that begins at approximately 13 to 15 feet below grade.

2.2.2 Hydrogeology

Depth to groundwater fluctuates depending on the season and amount of precipitation but is typically 8 to 10 feet below grade. Shallow groundwater flows towards Quassaick Creek.

2.3 Nature and Extent of Contamination

2.3.1 Soil Contamination

The principal contaminant of concern in soil was the chlorinated VOC TCA, the solvent used in the former production process. Other important contaminants, all chlorinated VOCs, included 1,1-Dichloroethane; 1,2-Dichloroethane; cis,1,2-Dichloroethane; trans,1,2-Dichloroethane;

Tetrachloroethane (PCE); 1,1,2-Trichloroethane; 1,1,2-Trichloroethane; and Trichloroethene (TCE). One non-chlorinated VOC, toluene, also had appreciable concentrations prior to remediation. Table 1 shows the pre-remedy data concentration spread for each of these compounds.

Table 1 - Summary of Pre-Remedy VOCs in Soil, µg/kg

VOC	No. Obs.	Min	p25	p50	p75	Max
1,1,1-Trichloroethane (TCA)	51	nd	410	2,600	12,000	5,270,000
1,1-Dichloroethane	51	nd	9.6	287	6,160	23,300
1,2-Dichloroethane	51	nd	nd	3.1	254	16,100
1,1-Dichloroethene	51	nd	22	544	2,770	86,800
cis,1,2dichloroethene	39	nd	nd	nd	39.7	5,590
Trans,1,2-Dichloroethene	51	nd	nd	nd	3	5,650
Tetrachloroethene (PCE)	39	nd	nd	nd	22.1	920
Trichloroethene (TCE)	51	nd	.57	33.7	351	30,900
1,1,2-Trichloroethane	51	nd	nd	nd	nd	1,780
Toluene	51	nd	nd	nd	nd	12,400

Min. – minimum conc.; p25 -25th percentile; p50 - 50th percentile (median); p75 - 75th percentile; Max. – maximum conc.; nd – non-detect

All of the primary VOCs in soil were below the CUSCOs. As shown in Table 1, most VOCs exhibited non-detect or low concentrations and comparatively few VOCs had elevated concentrations. Only TCA was above its CUSCO in three out of 51 soil samples (5.9 percent). The most elevated TCE soil concentrations were between 4 and 12 feet below grade, where TCA ranged from 1,150,000 µg/kg to 5,270,000 µg/kg (1,150 mg/kg to 5,270 mg/kg).

2.3.2 Groundwater Contamination

As with soil, the primary groundwater contaminant of concern prior to remediation was TCA. Approximately 62 percent of the 125 groundwater pre-remediation TCA groundwater samples were below its TOGS GA AWQS of 5 µg/L. Three of these 125 pre-remedy samples had TCE concentrations above 13,096 µg/L, the one percent solubility threshold indicating possible Dense Non-aqueous Phase Liquid (DNAPL). The three samples with these concentrations were all in what would eventually become the remediation area. No other VOCs had concentrations suggestive of DNAPL.

The concentrations of the remaining VOCs in Table 2 had roughly 50 to 75 percent of the results below their respective TOGS AWQS. The most elevated concentrations were predominantly in

the area that would eventually become the treatment area, although sample collection focused on this area.

Table 2 - Summary of Pre-Remedy VOCs in Groundwater, µg/L

VOC	No. Obs.	Min	p25	p50	p75	Max
1,1,1-Trichloroethane (TCA)	125	nd	nd	nd	20	50,000
1,1-Dichloroethane	69	nd	nd	2.8	130	36,100
1,2-Dichloroethane	69	nd	nd	nd	nd	233
1,1-Dichloroethene	68	nd	nd	nd	4.95	562
cis,1,2dichloroethene	19	nd	nd	nd	0.73	7.3
Trans,1,2-Dichloroethene	33	nd	nd	nd	nd	12
Tetrachloroethene (PCE)	32	nd	nd	nd	nd	2.2
Trichloroethene (TCE)	69	nd	nd	nd	2.3	28
1,1,2-Trichloroethane	60	nd	nd	nd	nd	34.5
Toluene	55	nd	nd	nd	nd	60.5

2.4 Site Cleanup

Site cleanup occurred in the 50-ft. by 50-ft. impacted area adjacent to the former Feutron Building (Figure 2). Cleanup took place from July 2012 through October 2012 in the form of *in situ* chemical injection followed by remedial excavation. The following sections describe Site conditions following remediation. The principal Compound of Concern was TCA. Per the February 2018 *Final Engineering Report,* the groundwater cleanup goals are the TOGS 1.1.1 Class GA Ambient Water Quality Standards or asymptotic levels of VOCs in groundwater following acceptable levels of treatment.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS, & PROTECTIVENESS

Section 3 describes the post-remedy Site conditions. Soil cleanup met, and in most cases exceeded, the established cleanup goals. Groundwater, undergoing continued monitoring, is meeting the cleanup goals for this medium.

3.1 Post *in situ* Chemical Oxidation Soil Results

Of the 31 post-treatment soil samples collected following chemical injection, all but three VOC results met the Residential Use w/CP-51 Soil Cleanup Objectives, which are more stringent than the CUSCOs. The VOC compounds in the remaining three samples were well below the CUSCOs. An appreciable number of post-treatment soil samples were below the Unrestricted Use SCOs. The average overall Total VOC mass reduction was 76 percent. The average overall TCA mass reduction was 87 percent (Figure 3).

3.2 Post Remedial Excavation Soil Results

All post-excavation and post-treatment soil sample results were below the Site cleanup criteria, the Part 375 CUSCOs. Post-excavation endpoint sample results found all VOC concentrations below the NYSDEC Unrestricted Use Criteria with the exception of 1,1-Dichloroethane in one sample (PX-07) and 1,1-Dichloroethane, 1,1-Dichloroethene and 1,1,1-Trichloroethane in another sample (PX-3). These samples were below the CUSCOs (Figure 4).

3.3 Post Treatment Groundwater Results

Post-treatment groundwater sampling took place in April 2013. Of the 35 VOCs in the 8260 Target Compound List, 21 (60 percent) of the VOC results were below detection limits in all five groundwater samples within and downgradient of the treatment area. Of the 14 detected VOCs, five (14 percent of the total) were all below the TOGS AWQS or guideline values. Nine VOCs were above the TOGS AWQS or guidelines: Chloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane, 1,1-Dichloroethene, Toluene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethane, and Vinyl chloride. Among these nine VOCs, four of the compounds were below the TOGS AWQS or guidelines in 75 percent of the samples.

The VOCs with the highest groundwater concentrations were Chloroethane (334 µg/L), 1,1-Dichloroethane (2,540 µg/L), and 1,1,1-Trichloroethane (8,630 µg/L) in monitoring well EW-0. EW-0 and MW-1 (a.k.a. MW-1N) had the highest concentrations of VOCs compared to all other wells, as shown. Post treatment groundwater results for these compounds collected in April 2013 (Table 3) were as follows:

Table 3 - Post-treatment Groundwater Results in µg/L, April 2013

Sample ID	Chloroethane	1,1-Dichloroethane	TCA
S-8	nd	11.8	1.4
E1-N (E1-NEW)	73.9	154	48.4
EW-1X	nd	22.9	nd
MW-1N (MW-1)	136	438	1,560
EW-0	334	2,540	8,630
Median	73.9	154	48.4

nd – non-detect

As of the most recent groundwater sampling in August 2022 (3Q-4Q 2022), the results for the same compounds (Table 4) are as follows:

Table 4 - Post-treatment Groundwater Results in µg/L, August (3Q-4Q) 2022

Sample ID	Chloroethane	1,1-Dichloroethane	TCA
S-8	2.7	6.3	1.2
EW-1X	82.4	32.9	47.1
MW-1N (MW-1)	344	101	63.8
EW-0	5,250	5,680	3,200

nd – non-detect. E1-N (E1-NEW) is no longer sampled.

The groundwater sampling results from the 3Q-4Q 2022 Semi-Annual sampling event show that TCA concentrations remain well below their pre-remedy and immediate post-treatment concentrations and show an overall more-or-less steady trend, but with variability, particularly in EW-0. Material rebound has not occurred in 10 years following post-treatment groundwater sampling; levels remain approximately an order-of-magnitude or more below pre-treatment concentrations. Semiannual groundwater reports for the reporting period appear in Appendix C.

4.0 EC/IC COMPLIANCE REPORT

4.1 Engineering Controls

The SMP describes the engineering controls that have been implemented to prevent exposure to residual subsurface contamination at the Site. The two Engineering Controls are the SSDS in the Piano Felt Building and the soil cover in the Soil Management Area. Appendix B contains photographs from the Site inspection and the Site inspection form.

4.1.1 Sub-slab Depressurization System

Exposure to potential soil vapor contamination in the Piano Felt Building is prevented by a Sub-slab Depressurization System that creates a vacuum beneath the building floor and ventilates VOC vapors to the outside before they can enter the building (Figure 5).

4.1.2 Protective Soil Cover

Exposure to remaining contamination at the Site is prevented by the soil cover (Soil Management Area) as specified in the Environmental Easement and SMP (Figure 1):

> A protective soil cover shall be in place over the Soil Management Area. The entire Soil Management Area will be inspected to ensure adequate cover by soil and/or vegetation and that erosion of the cover has not occurred. The protective cover in the 50-ft. x 50-ft. remedial excavation shall be of soil or gravel such that it is approximately level with the surrounding Soil Management Area grade.

4.2 Institutional Controls

Institutional controls incorporated into the Site remedy include an Environmental Easement to prohibit certain on-Site uses, and implementation of the SMP specifying soil management, operation, maintenance, monitoring and reporting procedures during future Site use. These Institutional Controls are described below.

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;
- All Engineering Controls must be operated and maintained as specified in the SMP;
- All Engineering Controls on the Controlled Property (i.e., the Site) must be inspected at a frequency and in a manner defined in the SMP.
- Groundwater, soil vapor and other environmental or public health monitoring must be performed as defined in the SMP;

- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;
- On-Site environmental monitoring devices, including but not limited to, groundwater monitoring wells, must be protected and replaced as necessary to ensure proper functioning in the manner specified in the SMP;
- Engineering Controls may not be discontinued without an amendment or extinguishment of the Environmental Easement.

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

- The property may only be used for commercial use provided that the long-term Engineering and Institutional Controls included in the SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted or restricted residential, use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;
- The potential for vapor intrusion must be evaluated for any new buildings or extensions to the Piano Felt Building and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the property are prohibited;
- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

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

5.0 MONITORING PLAN COMPLIANCE REPORT

Monitoring has been in full compliance with the requirements outlined in the SMP. There have been no omissions or gaps in the monitoring frequency.

In its letter, dated December 1, 2022, NYSDEC approved the reduction in groundwater monitoring frequency to annually, beginning in 2023. Per the new sampling schedule, the time to sample is to be selected randomly, so as to mitigate potential seasonal effects. Sampling in 2023 will be completed in the fourth quarter of 2023.

In the same letter, dated December 1, 2022, NYSDEC also approved of the removal of monitoring well S-8 from all monitoring events. This well was last sampled on August 19, 2022.

6.0 OPERATION & MAINTAINANCE (O&M) PLAN COMPLIANCE REPORT

There is no OM&M plan for the facility. The only requirements are that the soil cover be in place, the SSDS system operate as designed, and groundwater monitoring and reporting occur at the required frequency. Both systems are operating as designed in the reporting period. Groundwater monitoring and reporting have been taking place at the required frequency

7.0 INVASIVE WORK

No invasive work took place during the reporting period (August 2, 2022 -- August 2, 2023).

8.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

With respect to the protective cover, the SMP (Section 4.3.1) states:

> A protective soil cover shall be in place over the Soil Management Area. The entire Soil Management Area will be inspected to ensure adequate cover by soil and/or vegetation and that erosion of the cover has not occurred. The protective cover in the 50-ft. x 50-ft. remedial excavation shall be of soil or gravel such that it is approximately level with the surrounding Soil Management Area grade.

The Site inspection on July 13, 2023 found the soil cover in adequate condition and in compliance with SMP requirements (Appendix B).

The Site inspection found the SSDS to have adequate vacuum and functioning properly.

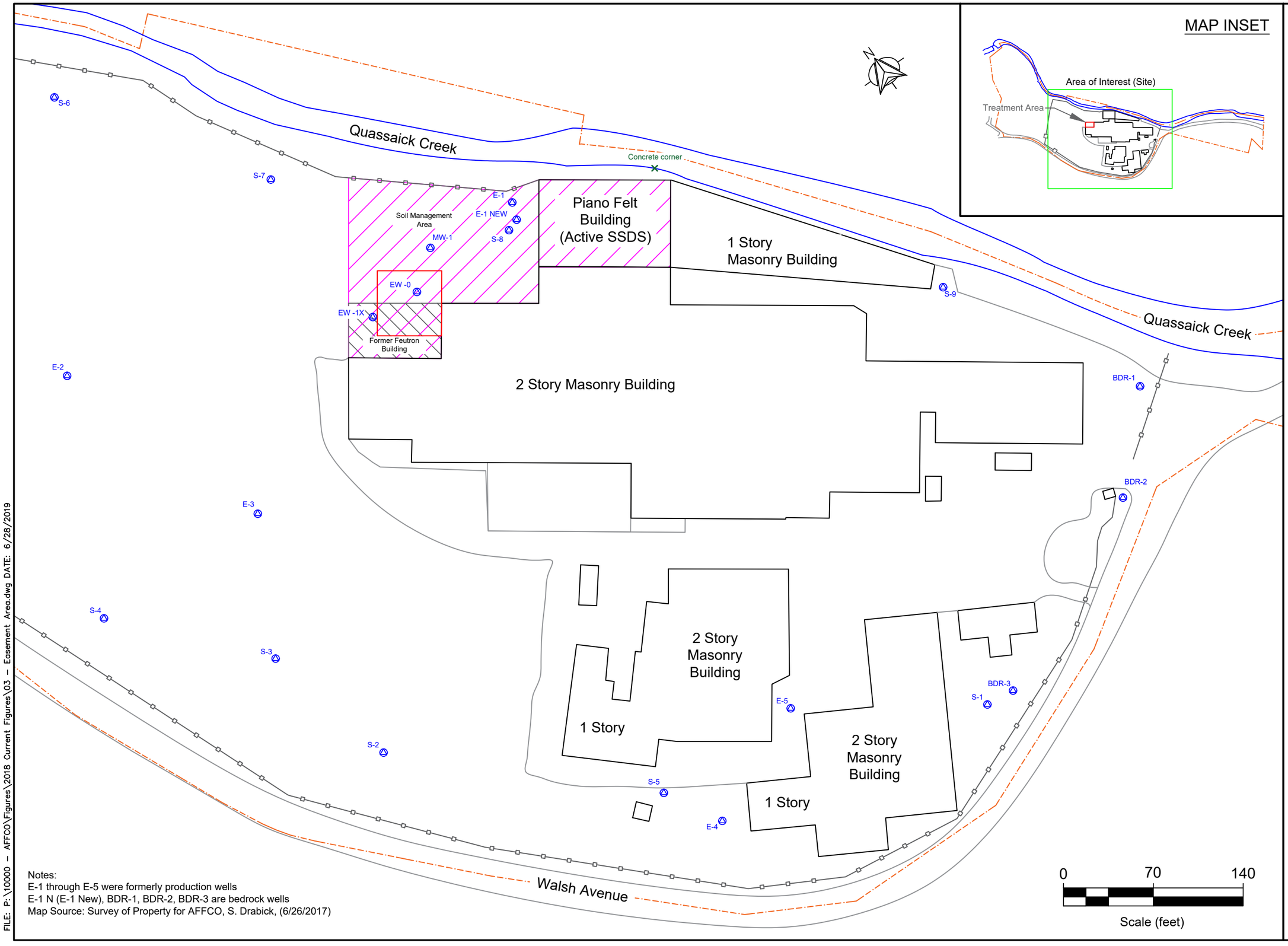
There are no recommended changes to the SMP.

9.0 CERTIFICATION

As a condition of the Environmental Easement the Grantor of the easement or successor is required to submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. This annual statement must be certified by an expert that the NYSDEC finds acceptable.

The IC/EC Certification Form for this Site was completed based on the information provided in this PRR and the inspections described herein. A copy of the form is included as Appendix D. As indicated on the form, all ICs for this Site remain in place and effective.

FIGURES



Notes:
E-1 through E-5 were formerly production wells
E-1 N (E-1 New), BDR-1, BDR-2, BDR-3 are bedrock wells
Map Source: Survey of Property for AFFCO, S. Drabick, (6/26/2017)

FILE: P:\10000 - AFFCO\Figures\2018 Current Figures\03 - Easement Area.dwg DATE: 6/28/2019

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Figure 1

Site Layout & Environmental Easement

June 2019

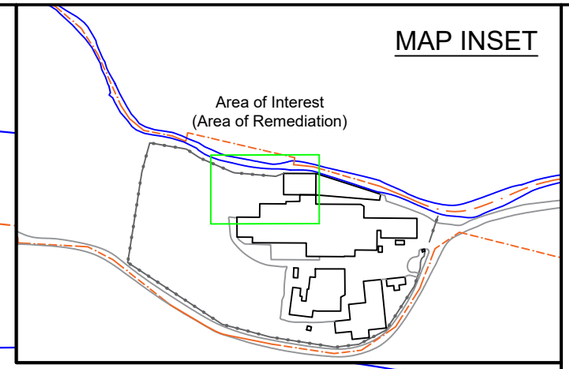
Project Number
10000-015

LEGEND

- Environmental Easement Area
- Extent of Building Demolition
- Area of Remedial Excavation and *in-situ* Treatment
- Property Line
- Retaining Walls / Fence
- Groundwater Monitoring Well

Quassaick Creek

MAP INSET



E-1

E-1 NEW

S-8

Piano Felt Building

MW-1

EW -0

EW -1X

GP-1
2.1
1.1
3
C3
C2
C1
IW-1
GP-2
PIT S
2.2
1.2
GP-3
IW-2
GP-4
GP-5
6
4
IW-3
C4
CONCRETE VAULT (OPEN)
PIT L
C5
C6
5

Former Feutron Building

2 Story Masonry Building

0 20 40

Scale (feet)

FILE: P:\10000 - AFFCO\Figures\FER\2017\2 - Site Plan.dwg DATE: 10/18/2017

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Figure 2

Site Plan, Remedial Excavation, and Injection Locations

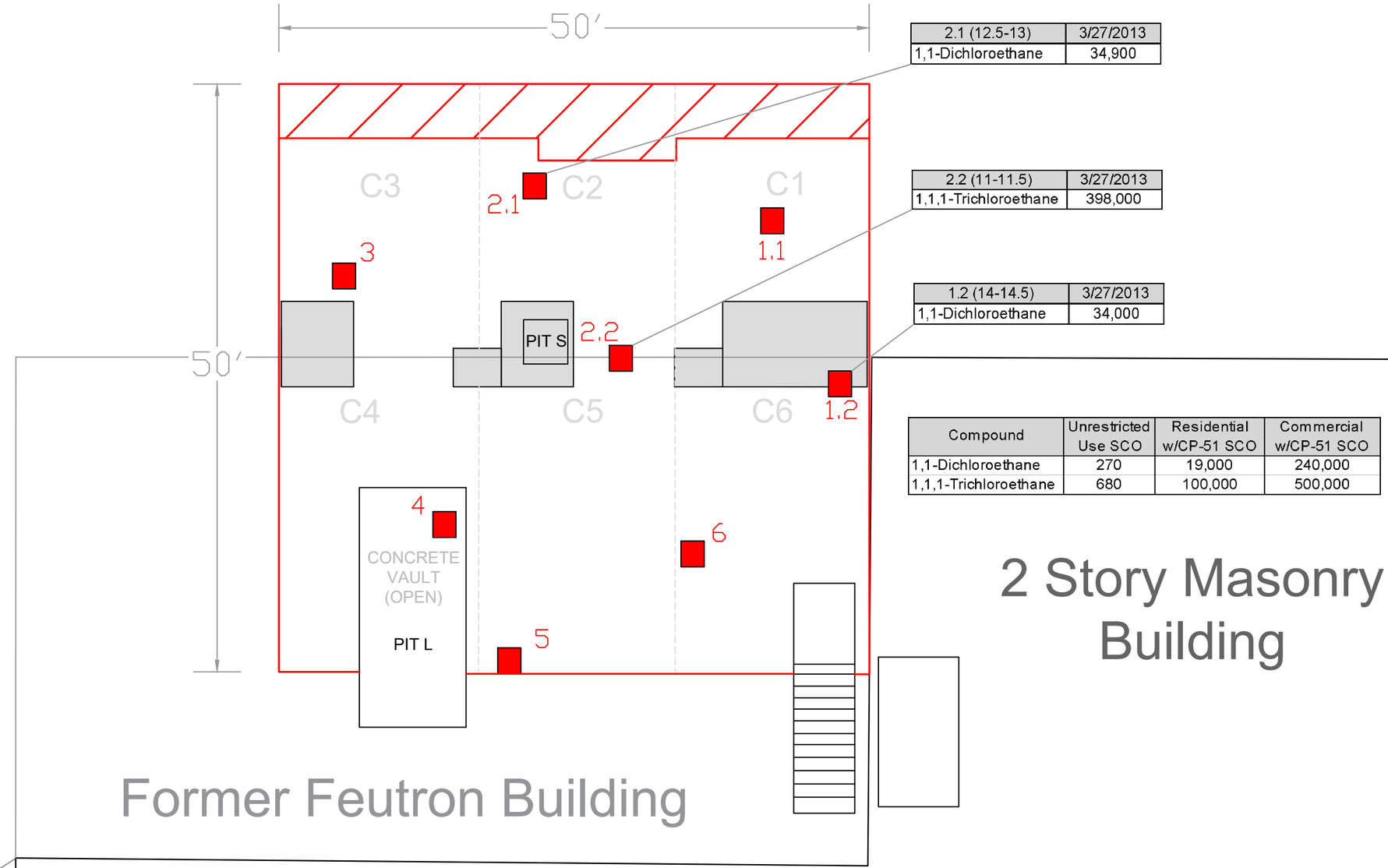
October 2017

Project Number
10000-015

LEGEND

- Area of remedial excavation and in situ injection
- Shallow remedial excavation depth (grade to 5')
- Injection well (removed)
- Geoprobe injection location
- Groundwater monitoring well
- Pre-treatment soil sample (random)
- C5 — Gride cell
- Concete

Notes:
Soil sample and geoprobe injection locations are approximate



2.1 (12.5-13)	3/27/2013
1,1-Dichloroethane	34,900

2.2 (11-11.5)	3/27/2013
1,1,1-Trichloroethane	398,000

1.2 (14-14.5)	3/27/2013
1,1-Dichloroethane	34,000

Compound	Unrestricted Use SCO	Residential w/CP-51 SCO	Commercial w/CP-51 SCO
1,1-Dichloroethane	270	19,000	240,000
1,1,1-Trichloroethane	680	100,000	500,000

Notes:
Results and SCOs in µg/kg, soil sample locations approximate
The soil cleanup objectives (SCO) for the Site are the Commercial Use SCOs (6 NYCRR 375-6 12/06). All results met these criteria
Post-excavation sample not shown on this figure are below Unrestricted Use SCOs (6 NYCRR 375-6 12/06)

0 10 20
Scale (feet)

FILE: P:\10000 - AFFCO\Figures\SMP\2017\05B - Post Treatment Soil Sampling Locations.dwg DATE: 10/25/2017

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Figure 3

Post-Treatment Soil Sampling Locations and Results Summary

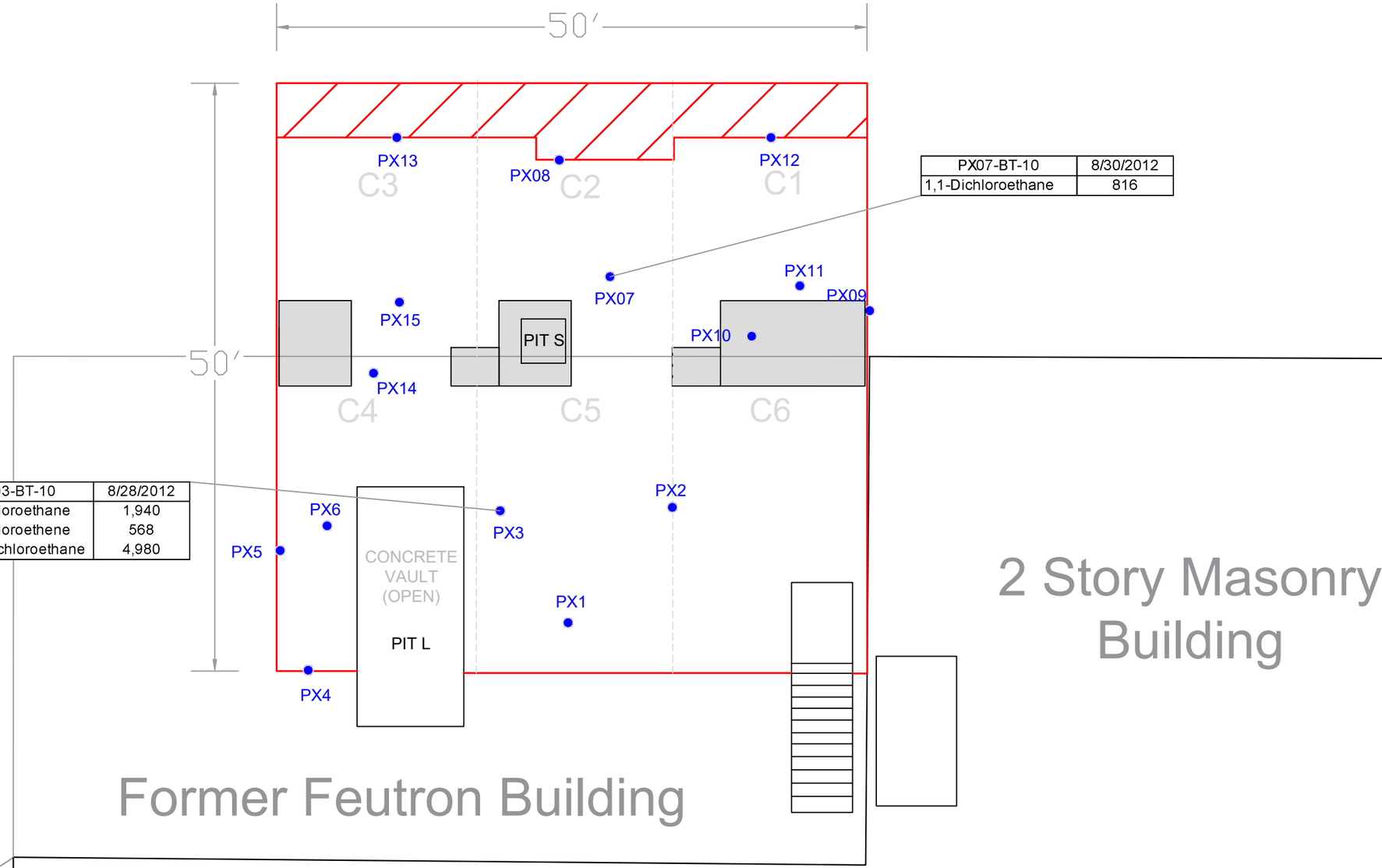
October 2017

Project Number
10000-015

LEGEND

- Area of remedial excavation (grade to 10 or 11')
- Shallow remedial excavation (grade to 5')
- Post-treatment endpoint soil sample (random)
- C5 Grid cell
- Concete

Compound	Unrestricted Use SCO	Residential w/CP-51 SCO	Commercial w/CP-51 SCO
1,1-Dichloroethane	270	19,000	240,000
1,1-Dichloroethene	330	100,000	500,000
1,1,1-Trichloroethane	680	100,000	500,000



0 10 20

Scale (feet)

Notes:
Results and SCOs in µg/kg, soil sample locations approximate
The soil cleanup objectives (SCO) for the site are the Commerical Use SCOs (6 NYCRR 375-6 12/06). All results met these criteria.
Post-excavation sample results not shown on this figure are all below the Unrestricted Use SCOs (6 NYCRR 375-6 12/06).
Soil stockpile sample results for C55P01, C55P02 and C35P01 were above the Unrestricted Use SCOs for TCA and DCE, but were below the Residential Use SCOs.

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Figure 4

Post-Excavation Soil Sampling Locations and Results Summary

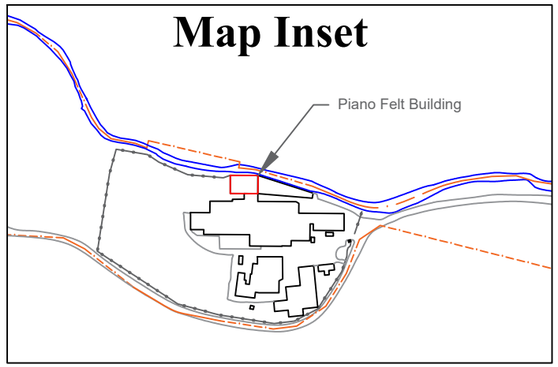
October 2017

Project Number
10000-015

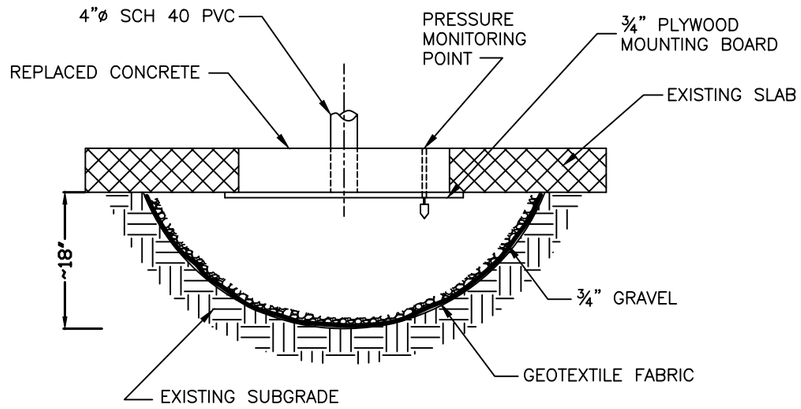
LEGEND

- Area of remedial excavation (grade to 10 or 11')
- Shallow remedial excavation (grade to 5')
- Post-excavation endpoint soil sample (random)
- C5 Grid cell
- Concete

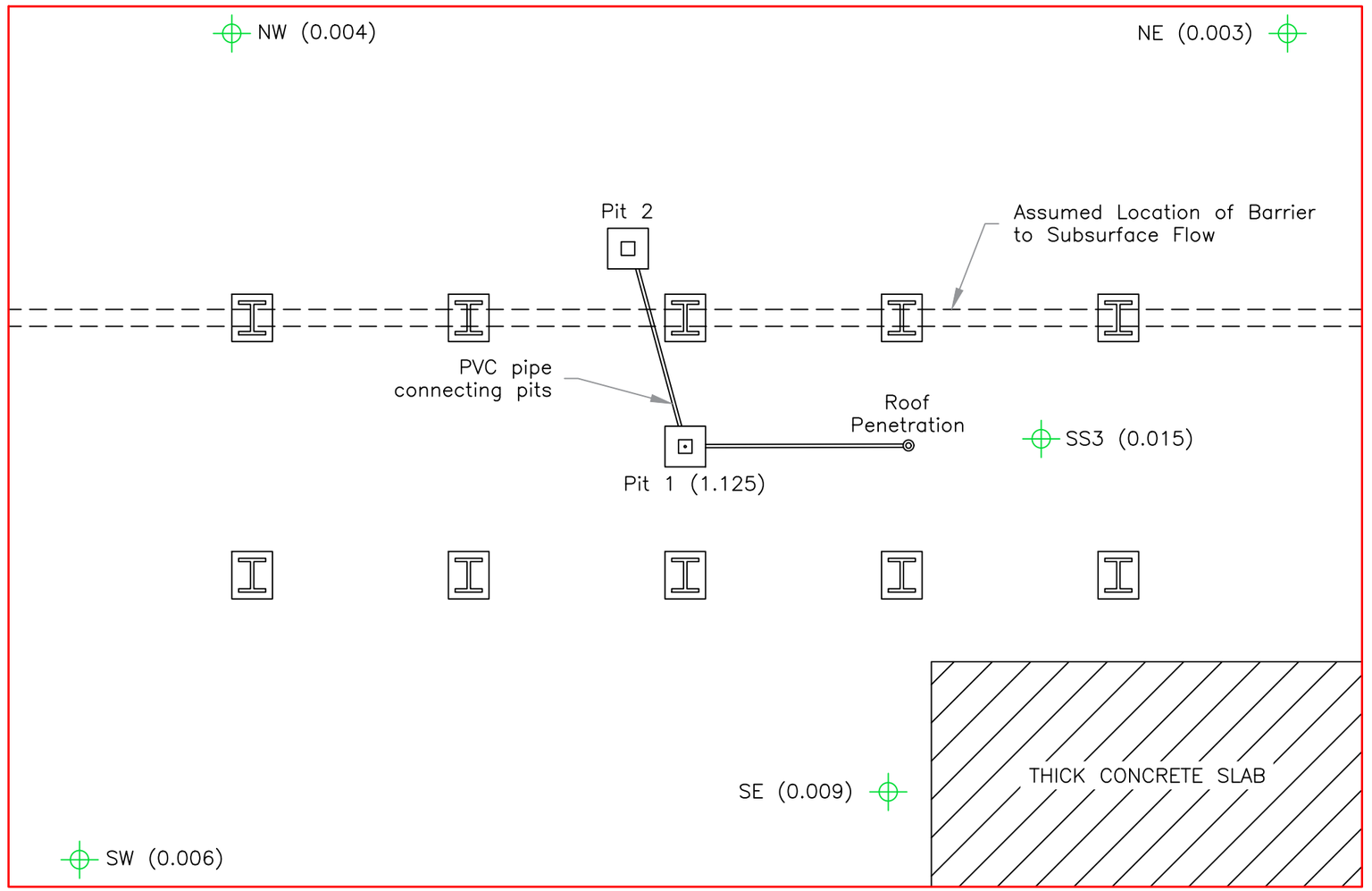
Map Inset



Pit Detail

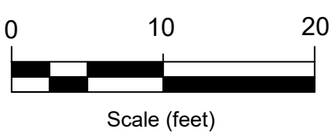


SSDS Plan View



NOTES:

1. Fan was installed on the roof and does not exhaust within 25' of an air intake
2. Labels noting SSDS are placed on pipe and at the exhaust
3. Fan size and number of pits based on similar designs referenced by EPA documents
4. Pit detail is not to scale



FILE: P:\10000 - AFFCO\Figures\SMP\2017\08 - SSDS As-Built.dwg DATE: 10/23/2017

Fleming Lee Shue
Environmental Management & Consulting
158 West 29th Street
New York, NY 10001

American Felt & Filter Co.
361 Walsh Avenue
New Windsor, NY

Figure 5

Piano Felt Building SSDS As-Built

October 2017

Project Number
10000-015

LEGEND

- Piano Felt Building Footprint
- Column
- Pressure Monitoring Point (Vacuum in inches of water column)

APPENDIX A

Environmental Easement Metes and Bounds Description

ORANGE COUNTY – STATE OF NEW YORK

ANN G. RABBITT, COUNTY CLERK
255 MAIN STREET
GOSHEN, NEW YORK 10924

COUNTY CLERK'S RECORDING PAGE

THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH

BOOK/PAGE: 14291 / 601
INSTRUMENT #: 20170066308

Receipt#: 2381301
Clerk: JM
Rec Date: 09/15/2017 12:16:02 PM
Doc Grp: D
Descrip: RT WY
Num Pgs: 10
Rec'd Frm: FIRST AMERICAN TITLE INS CO

Party1: AMERICAN FELT & FILTER CO INC
Party2: NYS DEPT OF ENVIRONMENTAL CONSERVATION
Town: NEW WINDSOR (TN)
9-1-69.2

Recording:

Recording Fee	70.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
TP584	5.00
Sub Total:	95.00

Transfer Tax

Transfer Tax - State	0.00
Sub Total:	0.00
Total:	95.00

**** NOTICE: THIS IS NOT A BILL ****

***** Transfer Tax *****
Transfer Tax #: 1693
Transfer Tax
Consideration: 0.00

Total: 0.00

Payment Type:
Check ___
Cash ___
Charge ___
No Fee ___

Comment: _____

Ann G. Rabbitt
Orange County Clerk

Record and Return To:

FIRST AMERICAN TITLE INS CO
666 THIRD AVE
5TH FLOOR
NEW YORK, NY 10017

3020-8692960

County: Orange Site No: 336036 Order on Consent Index : W3-0784-04-06

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 23rd day of August, 2017, between Owner(s) American Felt & Filter Company, Inc., having an office at 361 Walsh Avenue, New Windsor, New York 12553, County of Orange, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

9-1-69.2

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 361 Walsh Avenue in the Town of New Windsor, County of Orange and State of New York, known and designated on the tax map of the County Clerk of Orange as tax map parcel numbers: Section 9 Block 1 Lot 69.2, being a portion of the property conveyed to Grantor by deed dated July 31, 1978 and recorded in the Orange County Clerk's Office in Liber and Page 2106/655. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.545 +/- acres, and is hereinafter more fully described in the Land Title Survey dated April 17, 1998 and last revised June 26, 2017 prepared by Steven P. Drabick, P.L.S., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: W3-0784-04-06, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Orange County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

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

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

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

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: 336036
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

American Felt & Filter Company, Inc.:

By: _____

Print Name: Wilson H Tryne

Title: Treasurer Date: 8/8/17

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Orange)

On the 8th day of August, in the year 2017, before me, the undersigned, personally appeared Wilson H. Tryne, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Linda S Miranda
Notary Public - State of New York

LINDA S. MIRANDA
NOTARY PUBLIC-STATE OF NEW YORK
No. 01MI6064154
Qualified in Orange County
My Commission Expires September 17, 2017

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Robert W. Schick, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 23rd day of August, in the year 2017, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2018

R+R:
First American Title
666 Third Ave, Floor 5
New York, NY 10017

SCHEDULE "A" PROPERTY DESCRIPTION

DESCRIPTION OF SOILS MANAGEMENT AREA & SUB-SLAB DEPRESSURIZATION SYSTEM, AN ENVIRONMENTAL EASEMENT TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GRANT OF EASEMENT over, across and through all that certain plot, piece or parcel of land with the building and improvements thereon erected, situate, lying and being in the Town of New Windsor, County of Orange and State of New York bounded and described as follows:

BEGINNING at a point at the northwesterly corner of the 1story masonry building of the most northerly complex of buildings located on lands of American Felt & Filter Company Inc., Liber 5730, Page 201, said point of beginning being located South 65 degrees 16 minutes 40 seconds West for a distance of 42.37 feet from a corner in the northerly bounds of lands of the same at the intersection with the municipal boundary between the City of Newburgh and Town of New Windsor and lands now or formerly of Hudson Shipyard Lp, Liber 12960, Page 1797;

THENCE South 72 degrees 57 minutes 34 seconds East for a distance of 103.33 feet along the face of said masonry building to a point;

THENCE South 17 degrees 21 minutes 13 seconds West for a distance of 68.08 feet through said masonry building to a point at the outside corner of said building;

THENCE North 72 degrees 00 minutes 00 seconds West for a distance of 51.17 feet through said masonry building to a point at the outside corner of said building;

THENCE North 72 degrees 57 minutes 52 seconds West for a distance of 51.79 feet to a point at the outside corner of said building;

THENCE South 17 degrees 02 minutes 08 seconds West for a distance of 29.25 feet to a to a point at the northerly face of a two-story masonry building;

THENCE North 72 degrees 32 minutes 52 seconds West for a distance of 75.55 feet along the northerly face of said building to a point at the corner of said building;

THENCE South 17 degrees 20 minutes 58 seconds West for a distance of 43.06 feet along the westerly face of the two-story masonry building to a point at the corner of said building;

THENCE North 72 degrees 34 minutes 38 seconds West for a distance of 72.17 feet along the northerly face of the two story masonry building to a point at the most northwesterly corner of said building;

THENCE North 17 degrees 02 minutes 17 seconds East for a distance of 140.76 feet through lands of American Felt & Filter Company, Inc. to a point marked by an iron rod set at or near a chain link fence;

THENCE South 67 degrees 51 minutes 22 seconds East for a distance of 123.39 feet through lands of the same and along a chain link fence to a point marked by an iron rod set;

THENCE North 87 degrees 49 minutes 18 seconds East for a distance of 26.52 feet through lands of American Felt & Filter Company, Inc. to the POINT OR PLACE OF BEGINNING.

Together with and subject to covenants, and restrictions of record.

Said area contains 0.5454 acres more or less.

STEVEN P. DRABICK P.L.S., PC
PROFESSIONAL LAND SURVEYOR
PO BOX 539
CORNWALL, N.Y. 12518
(8 4 5) - 5 3 4 - 2 2 0 8

LEGEND

- EDGE OF WATER COURSE
- BOUNDARY LINE
- EASEMENT LINE
- UTILITY POLE
- OVERHEAD UTILITY LINES
- CHAIN LINK FENCE
- WROUGHT IRON FENCE
- GUIDE RAIL
- EDGE OF PAVED TRAVELWAY
- EDGE OF UNPAVED TRAVELWAY
- AREA OF CONCRETE
- STONE RETAINING WALL
- ROOF OVER OPEN AREA
- ENCLOSED STAIRWAY
- FV FIRE VALVE
- MW MONITORING WELL
- MANHOLE
- CATCH BASIN
- CULVERT
- UB UTILITY BOX

DESCRIPTION OF SOILS MANAGEMENT AREA & SUB-SLAB DEPRESSURIZATION SYSTEM, AN ENVIRONMENTAL EASEMENT TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GRANT OF EASEMENT over, across and through all that certain plot, piece or parcel of land with the building and improvements thereon erected, situate, lying and being in the Town of New Windsor, County of Orange and State of New York bounded and described as follows:

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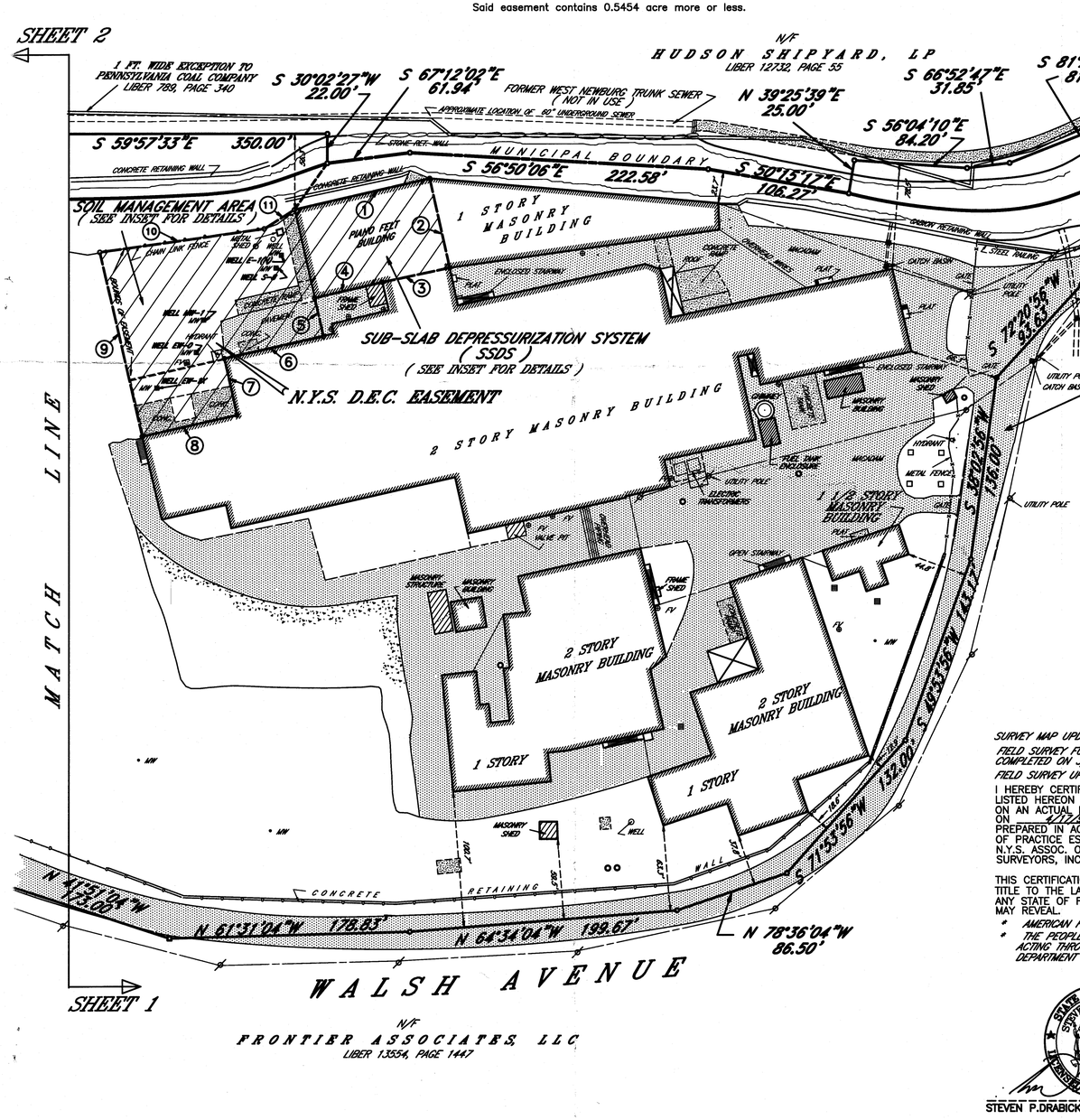
Together with and subject to covenants, and restrictions of record.

Said easement contains 0.5454 acre more or less.



SURVEY MAP UPDATE COMPLETED ON 6/26/17.
FIELD SURVEY FOR EASEMENT BOUNDARY COMPLETED ON 3/18/15.
FIELD SURVEY UPDATE COMPLETED ON 7/24/13.

I HEREBY CERTIFY ONLY TO THE PARTIES LISTED HEREON THAT THIS MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED ON 4/12/96 AND HAS BEEN PREPARED IN ACCORDANCE WITH THE CODE OF PRACTICE ESTABLISHED BY THE N.Y.S. ASSOC. OF PROFESSIONAL LAND SURVEYORS, INC.

THIS CERTIFICATION DOES NOT RUN WITH TITLE TO THE LAND AND IS SUBJECT TO ANY STATE OF FACTS A TITLE SEARCH MAY REVEAL.

- AMERICAN FELT & FILTER COMPANY, INC.,
- THE PEOPLE OF THE STATE OF NEW YORK ACTING THROUGH ITS COMMISSIONER OF THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.

STATE OF NEW YORK STEVEN P. DRABICK LICENSED LAND SURVEYOR NO. 49806

STEVEN P.DRABICK,PLS NY LIC.#49806

NOTES:

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IN A VIOLATION OF SECTION 7209 SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

COPIES OF THIS SURVEY MAP NOT HAVING THE EMBOSSED SEAL OF THE LAND SURVEYOR SHALL NOT BE VALID.

CERTIFICATIONS SHOWN HEREON ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS.

THE CERTIFICATION AS STATED IS APPLICABLE TO THE RELATIONSHIP OF EXISTING BOUNDARIES, PROPERTY LINES & EASEMENTS (THOSE VISIBLE AND/OR OF RECORD) TO THE EXISTING IMPROVEMENTS & BUILDINGS INDICATED ON THE SURVEY AND ARE SHOWN HEREON TO THE EXTENT THEREOF.

ONLY THOSE UTILITIES VISIBLE ARE SHOWN. ALL UNDERGROUND UTILITIES AS SHOWN HEREON ARE APPROXIMATE AND SUBJECT TO PHYSICAL VERIFICATION.

EASEMENTS OR RIGHT OF WAYS ON, OR UNDER THE LANDS, AND NOT VISIBLE, ARE NOT SHOWN.

THAT PORTION OF THE PROPERTY LYING IN THE BED OF QUASSAICK CREEK IS LOCATED IN FEMA 100 YEAR FLOOD HAZARD ZONE DESIGNATED AS AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR THE TOWN OF NEW WINDSOR, COMMUNITY PANEL #360628 0010 E, PAGE 10 OF 10, DATED DECEMBER 15, 1978. NO FIELD DETERMINATION HAS BEEN MADE BY THIS SURVEY TO THE EXTENT OF THE PUBLISHED BASE FLOOD ELEVATIONS.

THIS SURVEY MAP SHALL BE DEEMED INVALID UNLESS ACCOMPANIED BY SHEET 2 OF 2.
SEE SHEET 2 OF 2 FOR ADDITIONAL INFORMATION.

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW.

BEING:

THE PARCELS OF LAND INTENDED AS DESCRIBED IN DEED OF RECORD LIBER 5730, PAGE 201.

ALSO BEING LOT 69.2, BLOCK 1, SECTION 9 AS SHOWN ON THE TOWN OF NEW WINDSOR TAX MAP. THERE IS NO TAX MAP DESIGNATION FOR THE PORTION OF PROPERTY LYING IN THE CITY OF NEWBURGH.

A R E A = 23.1853 ACRES

REFERENCES:

DEEDS OF RECORD

MAP ENTITLED "MAP OF LANDS OWNED BY THE STROOCK FELT CO. IN THE TOWN OF NEW WINDSOR", DATED AUGUST 1902, ON FILE IN THE NEWBURGH CITY ENGINEER'S OFFICE.

MAP ENTITLED "MAP OF LANDS OF S STROOCK AND CO. INC FELT MILLS", DATED OCTOBER 1923 AND REVISED MARCH 1925 BY BLAKE AND WOODHULL, CIVIL ENGINEERS, ON FILE IN THE NEWBURGH CITY ENGINEER'S OFFICE.

MAP ENTITLED "MINOR SUBDIVISION, DIAMOND CANDLE CO., INC.", FILED IN THE ORANGE COUNTY CLERK'S OFFICE ON FEBRUARY 25, 1987 AS MAP #8131.

MAP ENTITLED "SURVEY MAP FOR AMERICAN FELT AND FILTER COMPANY", DATED JUNE 1990 BY WASHBURN ASSOCIATES.

MAP ENTITLED "LOT LINE CHANGE PREPARED FOR AMERICAN FELT & FILTER COMPANY", FILED IN THE ORANGE COUNTY CLERK'S OFFICE ON JULY 12, 1993 AS MAP #122-93.

MAP ENTITLED "SURVEY OF A PORTION OF LANDS OF THE AMERICAN FELT & FILTER COMPANY SHOWING OCCUPANCY PROPOSED BY NEW YORK TELEPHONE COMPANY", DATED JANUARY 1994 BY CHALEN ENGINEERING & LAND SURVEYING CO., P.C.

MAP ENTITLED "SURVEY AND PROPOSED LOT LINE CHANGE PREPARED FOR DAVID PLOTKIN AND MOBIL OIL CORPORATION", FILED IN THE ORANGE COUNTY CLERK'S OFFICE AS MAP #74-94.

SURVEY OF PROPERTY FOR AFFCO

AMERICAN FELT & FILTER COMPANY, INC.

TOWN OF NEW WINDSOR, CITY OF NEWBURGH ORANGE COUNTY, NEW YORK
SCALE: 1" = 50' AUGUST 8, 2013 REVISED: 3/23/15, 6/26/17

50 0 50 100 150
GRAPHIC SCALE - FEET

SHEET 1 OF 2 JOB NO. 140-171

STEVEN P. DRABICK P.L.S., PC
PROFESSIONAL LAND SURVEYOR
PO BOX 539
CORNWALL, N.Y. 12518
(845)-534-2208

DESCRIPTION OF SOILS MANAGEMENT AREA & SUB-SLAB DEPRESSURIZATION SYSTEM, AN ENVIRONMENTAL EASEMENT TO

THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GRANT OF EASEMENT over, across and through all that certain plot, piece or parcel of land with the building and improvements thereon erected, situate, lying and being in the Town of New Windsor, County of Orange and State of New York bounded and described as follows:

BEGINNING at a point at the northwesterly corner of the 1story masonry building of the most northerly complex of buildings located on lands of American Felt & Filter Company Inc., Liber 5730, Page 201, said point of beginning being located South 65 degrees 16 minutes 40 seconds West for a distance of 42.37 feet from a corner in the northerly bounds of lands of the same at the intersection with the municipal boundary between the City of Newburgh and Town of New Windsor and lands now or formerly of Hudson Shipyard Lp, Liber 12960, Page 1797;

THENCE South 72 degrees 57 minutes 34 seconds East for a distance of 103.33 feet along the face of said masonry building to a point;

THENCE South 17 degrees 21 minutes 13 seconds West for a distance of 68.08 feet through said masonry building to a point at the outside corner of said building;

THENCE North 72 degrees 00 minutes 00 seconds West for a distance of 51.17 feet through said masonry building to a point at the outside corner of said building;

THENCE North 72 degrees 57 minutes 52 seconds West for a distance of 51.79 feet to a point at the outside corner of said building;

THENCE South 17 degrees 02 minutes 08 seconds West for a distance of 29.25 feet to a to a point at the northerly face of a two-story masonry building;

THENCE North 72 degrees 32 minutes 52 seconds West for a distance of 75.55 feet along the northerly face of said building to a point at the corner of said building;

THENCE South 17 degrees 20 minutes 58 seconds West for a distance of 43.06 feet along the westerly face of the two-story masonry building to a point at the corner of said building;

THENCE North 72 degrees 34 minutes 38 seconds West for a distance of 72.17 feet along the northerly face of the two story masonry building to a point at the most northwesterly corner of said building;

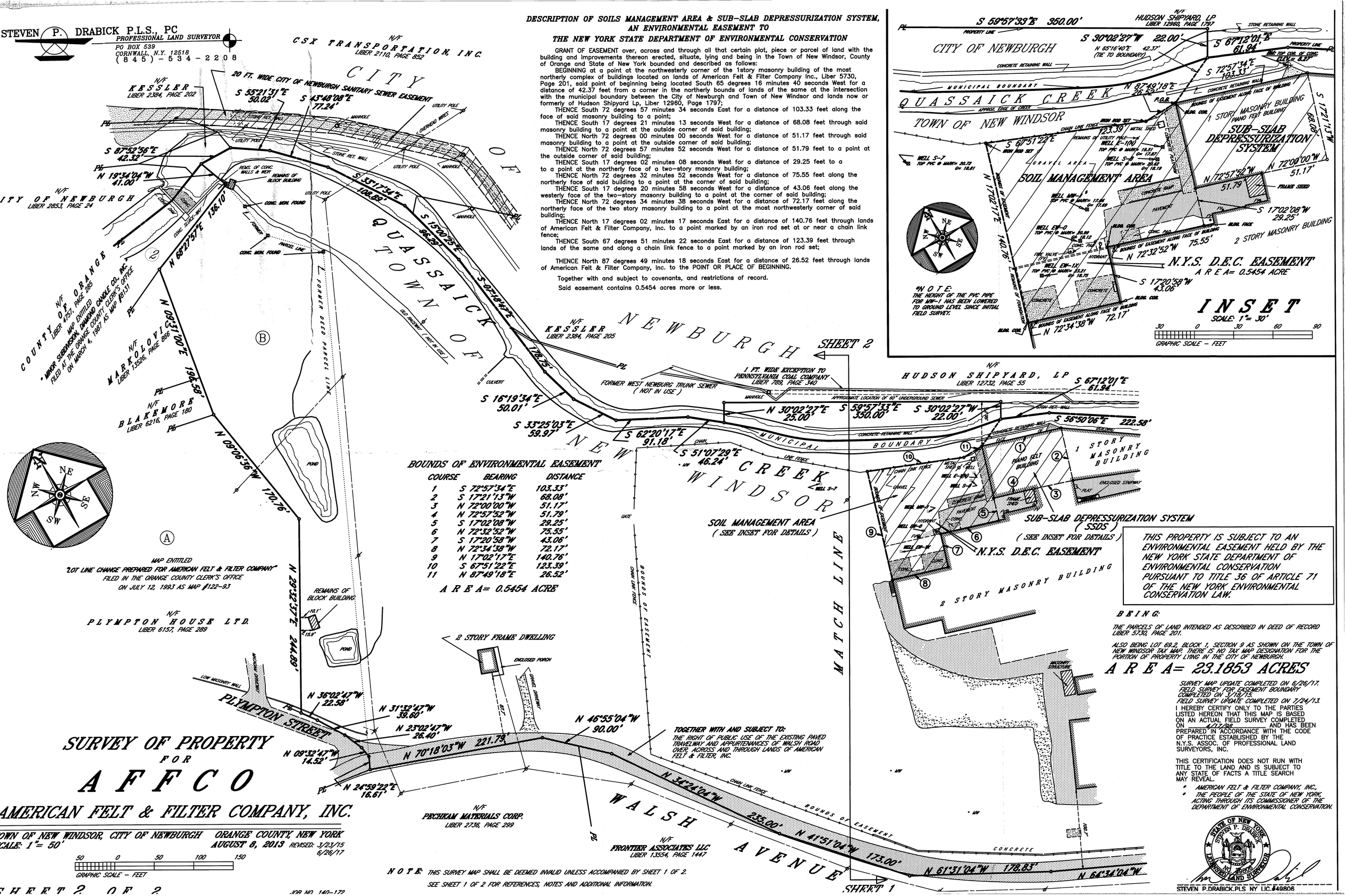
THENCE North 17 degrees 02 minutes 17 seconds East for a distance of 140.76 feet through lands of American Felt & Filter Company, Inc. to a point marked by an iron rod set at or near a chain link fence;

THENCE South 67 degrees 51 minutes 22 seconds East for a distance of 123.39 feet through lands of the same and along a chain link fence to a point marked by an iron rod set;

THENCE North 87 degrees 49 minutes 18 seconds East for a distance of 26.52 feet through lands of American Felt & Filter Company, Inc. to the POINT OR PLACE OF BEGINNING.

Together with and subject to covenants, and restrictions of record.

Said easement contains 0.5454 acres more or less.



BOUNDS OF ENVIRONMENTAL EASEMENT

COURSE	BEARING	DISTANCE
1	S 72°57'34"E	103.33'
2	S 17°21'13"W	68.08'
3	N 72°00'00"W	51.17'
4	N 72°57'52"W	51.79'
5	S 17°02'08"W	29.25'
6	N 72°32'52"W	75.55'
7	S 17°20'58"W	43.06'
8	N 72°34'38"W	72.17'
9	N 17°02'17"E	140.76'
10	S 67°51'22"E	123.39'
11	N 87°49'18"E	26.52'

A R E A= 0.5454 ACRE

TOGETHER WITH AND SUBJECT TO:
THE RIGHT OF PUBLIC USE OF THE EXISTING PAVED TRAVELWAY AND APPURTENANCES OF WALSH ROAD OVER, ACROSS AND THROUGH LANDS OF AMERICAN FELT & FILTER, INC.

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW.

B E I N G:

THE PARCELS OF LAND INTENDED AS DESCRIBED IN DEED OF RECORD LIBER 5730, PAGE 201.

ALSO BEING LOT 69.2, BLOCK 1, SECTION 9 AS SHOWN ON THE TOWN OF NEW WINDSOR TAX MAP. THERE IS NO TAX MAP DESIGNATION FOR THE PORTION OF PROPERTY LYING IN THE CITY OF NEWBURGH.

A R E A= 23.1853 ACRES

SURVEY MAP UPDATE COMPLETED ON 6/26/17.
FIELD SURVEY FOR EASEMENT BOUNDARY COMPLETED ON 3/18/15.
FIELD SURVEY UPDATE COMPLETED ON 7/24/13.

I HEREBY CERTIFY ONLY TO THE PARTIES LISTED HEREON THAT THIS MAP IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED ON 4/17/98 AND HAS BEEN PREPARED IN ACCORDANCE WITH THE CODE OF PRACTICE ESTABLISHED BY THE N.Y.S. ASSOC. OF PROFESSIONAL LAND SURVEYORS, INC.

THIS CERTIFICATION DOES NOT RUN WITH TITLE TO THE LAND AND IS SUBJECT TO ANY STATE OF FACTS A TITLE SEARCH MAY REVEAL.

- * AMERICAN FELT & FILTER COMPANY, INC.,
- * THE PEOPLE OF THE STATE OF NEW YORK, ACTING THROUGH ITS COMMISSIONER OF THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.

STEVEN P. DRABICK
49806

STEVEN P.DRABICK.PLS NY LIC.#49806

SURVEY OF PROPERTY
FOR
A F F C O
AMERICAN FELT & FILTER COMPANY, INC.

TOWN OF NEW WINDSOR, CITY OF NEWBURGH ORANGE COUNTY, NEW YORK
SCALE: 1"= 50'
AUGUST 8, 2013 REVISED: 3/23/15
6/26/17

50 0 50 100 150
GRAPHIC SCALE - FEET

SHEET 2 OF 2

JOB NO. 140-172

N O T E: THIS SURVEY MAP SHALL BE DEEMED INVALID UNLESS ACCOMPANIED BY SHEET 1 OF 2.
SEE SHEET 1 OF 2 FOR REFERENCES, NOTES AND ADDITIONAL INFORMATION.

APPENDIX B

Site Investigation Form and Site Photographs

Site Inspection Form
Consent Order Index #W3-0784-04-06, Site #3-36-036
361 Walsh Avenue
New Windsor, New York.

Name of Inspector Jordan Arey + Landon Silverman Weather Partly Cloudy 80°F Date 7/13/23

Site personnel contacted/phone number Linda Miranda 845-561-3560

Is the Site limited to commercial use only? Yes

Has the Site use changed since the last certification? No

If Yes, explain how: N/A

What is the condition of the Composite Cover? X good ____ fair ____ poor

Are there cracks, clogs, or loose connections in the sub-slab depressurization system pipes? No

Differential pressure gauge reading (w.c.): 1.05 " H_2O

Is the sub-slab depressurization system operating properly? Yes

If No, explain why and what corrective actions should be taken: N/A

Attach additional sheets as needed

Signature of Inspector and Date 7/13/23

Fleming Lee Shue

Environmental Management and Consulting

Site Photos – Soil Management Area & Piano Felt Building SSDS, 7/13/2023

Photo 1. Soil Mgt. Area (facing southeast).

Photo 2. Southeast quadrant of Soil Mgt. Area (facing east).

Photo 3. Soil Mgt. Area (facing east).

Photo 4. Soil Mgt. Area (facing northeast).

Photo 5. Soil Mgt. Area (facing north).

Photo 6. North edge of Soil Mgt. Area (facing east).

Photo 7. Piano Felt Bldg. floor (facing east).

Photo 8. Piano Felt Bldg. floor (facing south).

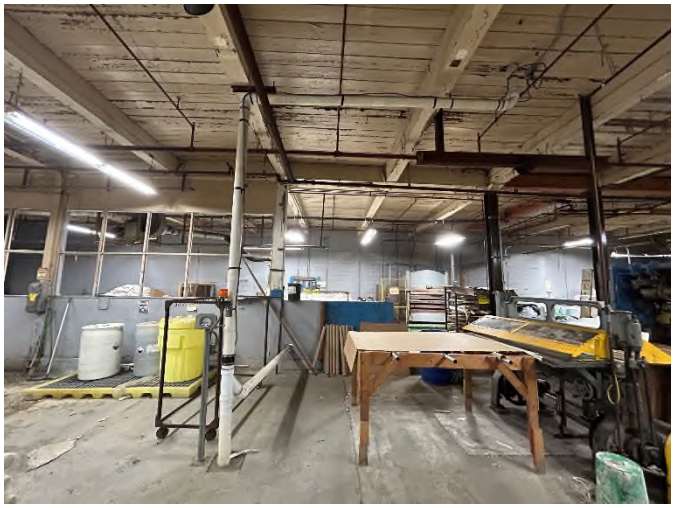


Photo 9. Piano Felt Bldg. floor (facing northwest).

Photo 10. Piano Felt Bldg. floor (facing west).

Photo 11. Northeast quadrant of Piano Felt Bldg. floor (facing north)

Photo 12. SSDS photohelic gauge, reading = 1.05” H_2O.

APPENDIX C

Reporting Period Semi-Annual Groundwater Reports

Fleming Lee Shue

November 9, 2022

Mr. John Spellman, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7016

Re: American Felt and Filter Company (AFFCO), New Windsor, NY
Semiannual Groundwater Monitoring Report No. 4 – November 2022
Site No. 3-36-036; Site Index No. W3-0784-04-06

Dear Mr. Spellman:

Fleming, Lee Shue Environmental Engineering and Geology D.P.C. (FLS), on behalf of American Felt and Filter Company (AFFCO) is presenting this Fourth Semiannual (SA) Groundwater Monitoring Report for the site in New Windsor, New York. The change in groundwater sampling frequency was approved by the Department in its May 6, 2020 approval of AFFCO's petition to reduce the frequency of groundwater sampling and eliminate one well, E1-NEW, from sampling. This fourth SA groundwater sampling event took place on August 19, 2022.

The Site was remediated between July and September 2012. The remedy was a combination of excavation and *in situ* chemical oxidation (ISCO) using the RemMetrik process (U.S. Patent No. 8,739,867 B2). The *in situ* injection took place in the 50-ft. by 50-ft. treatment area adjacent to the Fuetron Building in July 2012 and excavation occurred in August-September 2012. Post-treatment groundwater sampling took place in April 2013 in order for the treatment chemical, activated sodium persulfate, to fully react. FE prepared a Final Engineering Report (FER) and Site Management Plan (SMP) following the remedy and filed these with the New York State Department of Environmental Conservation (NYSDEC) in 2013 for review and comment. NYSDEC reviewed and approved these documents in 2017 after discussions and revisions made by FE. Quarterly groundwater sampling as outlined in the SMP began in the Second Quarter of 2012 after NYSDEC approved the FER and SMP and issued the Certificate of Completion on April 2, 2018.

A Site Layout Map showing the Site and Environmental Easement and Soil Management Area is included as Figure 1. Figure 2 is a groundwater contour map. Figure 3 identifies groundwater concentrations above NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS) Ambient Water Quality Standards and Guidance Values (Class GA Standards). The

monitoring wells sampled, the respective analyses as required by the SMP and approved petition are as follows:

Well	TCL VOCs	Basic Groundwater Parameters[1]	Location
EW-0	x	x	Treatment Area
EW-1X	x	x	Treatment Area
MW-1	x	x	Adjacent to Treatment Area
S8	x	x	Downgradient of Treatment Area

[1] Iron, sulfate, sulfide, chloride, alkalinity

The groundwater results are discussed with respect to pre-treatment groundwater concentrations and concentration trends. The goal is to attain bulk reduction of groundwater concentrations and asymptotic trends in groundwater concentrations.

Data Validation

Data validation and review of the laboratory analytical data for the Target Compound List (TCL) Volatile Organic Compounds (VOCs) was completed by an in-house chemist not directly involved in the project. Data usability summary reports (DUSRs) are included as Appendix A. Data validation found all data usable for project decisions with the understanding of potential biases in estimated results.

The data were submitted to NYSDEC as an Electronic Data Deliverable (EDD) in accordance with Section 1.15 of NYSDEC's May 2010 DER-10 Technical Guidance for Site Investigation and Remediation. The EDD was submitted on November 9, 2022.

Groundwater Sampling & Analysis

Well purging and groundwater sampling were conducted in accordance with the approved Quality Assurance Project Plan (QAPP) and in accordance with the NYSDEC-approved SMP. Each well was purged using a low flow pump, ensuring minimum turbulence to prevent an increase in suspended solids. Each well was purged until groundwater parameters (temperature, pH, dissolved oxygen [DO], conductivity, oxidation reduction potential [ORP], and turbidity) stabilized or three well volumes were purged, or the well purged dry. The typical purge rates measured 200 to 240 milliliters per minute (mL/minute). Well purge logs are included as Appendix B.

FE conducted the current round of groundwater sampling on February 28, 2022. The samples were analyzed by SGS Laboratories of Dayton, New Jersey, a New York State Environmental Laboratory Approval Program (ELAP) certified laboratory. An electronic copy of the laboratory data report is included as Appendix C. The groundwater samples were managed in accordance with the NYSDEC Analytical Services Protocol (ASP) and analyzed for the following analyses/methods:

- Target Compounds List (TCL) VOCs, EPA Method 8260B

- Sulfate, EPA Method 300/SW846 9056A
- Sulfide, Method SM20 4500S2 F
- Alkalinity, EPA Method SM20 2320B
- Chloride, EPA Method 300
- Methane and Carbon Dioxide, Method RSK-175
- Iron, SW846 6010C
- Iron II, SM3500FE B-11

FE collected field Quality Assurance/Quality Control (QA/QC) samples as part of groundwater sampling. The QA/QC samples included one trip blank, one field blank, and one duplicate sample.

Groundwater Flow

Water level measurements were collected in the monitoring wells as part of the monitoring event and were used to prepare a shallow groundwater contour map as shown in Figure 2. Synoptic groundwater measurements were collected on August 19, 2022. Groundwater flow is towards Quassaick Creek, as expected.

Summary of Analytical Results

The discussion of the analytical results focuses on the principal contaminant, 1,1,1-Trichloroethane (TCA) and Total VOCs. Table 1 presents the analytical results for the current and previous rounds of groundwater sampling.

The semiannual sampling results are plotted and compared to the maximum pre-treatment concentrations for each of the principal contaminants. Groundwater concentrations typically fluctuate, often dramatically, with changing groundwater levels, the seasons, precipitation, and changes in groundwater flow direction throughout the year. This variation can dramatically affect contact between groundwater and contaminant, influence groundwater movement with more or less contaminated strata, affect contaminant migration and retardation through strata of different conductivities, and be influenced by geochemical factors that also occur within different strata. As a result, groundwater contaminant concentrations can fluctuate dramatically from one sampling event to another. Under these conditions, the maximum concentrations likely approximate actual groundwater contaminant concentrations and seem most appropriate as a basis for comparison. For this reason, it is more useful to compare the pre-remedy maximum groundwater concentrations with post-treatment groundwater over time and to use as a gauge of remedy effectiveness.

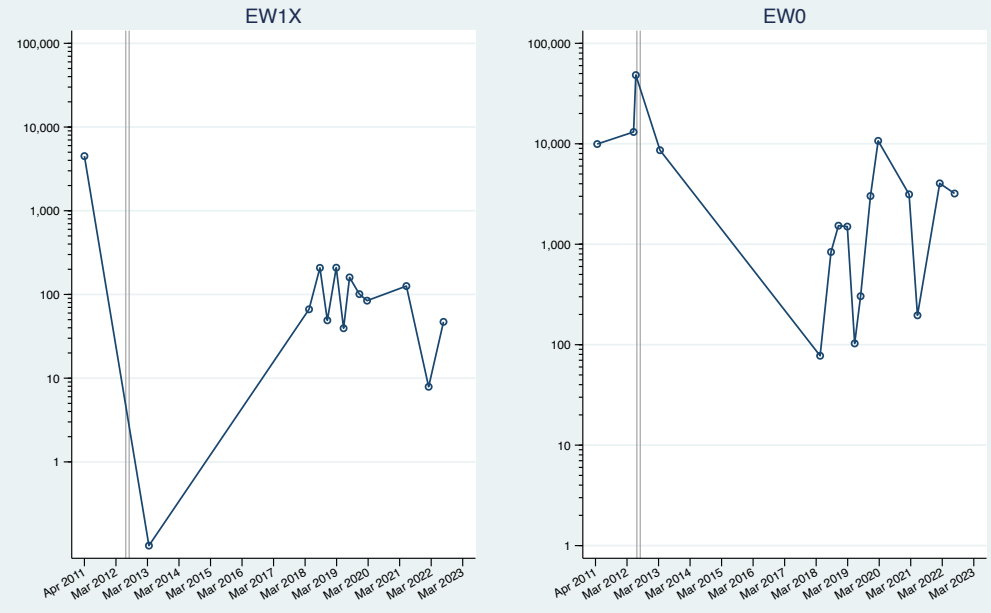
Treatment Area Wells

Monitoring wells EW-0 and EW-1X are the two monitoring wells within the treatment area. Figures 4 and 5 show the results of groundwater sampling trends for TCA and Total VOCs in the treatment area. Analysis of the 3Q 2022 semiannual groundwater sampling data identified the following trends.

Figure 4 shows that TCA in EW-0 decreased modestly from the last period, decreasing from 4,040 µg/L to 3,200 µg/L, although this concentration is within the range of fluctuation typically found in this well. TCE in EW-0 still remains well below the pre-treatment maximum by more than an order-of-magnitude, and although there is a good deal of variability, TCE overall shows a sustained decrease compared to the pre-treatment concentration. The net decrease remains an order-of-magnitude or more. TCA in EW-1X increased from 7.9 µg/L to 47.1 µg/L this period, but nonetheless exhibits a sustained decrease over time of well over an order-of-magnitude compared to the pre-treatment concentration.

Figure 5 shows that Total VOCs in EW-0 essentially mirror the concentration of TCA. Total VOCs in EW-0 increased from the last sampling period, from 11,030 µg/L to 14,344 µg/L, which is within the range typically found in this well. Total VOCs, overall, nevertheless remain more than an order-of-magnitude below the pre-treatment maximum concentration. Total VOCs in EW-1X increased from 98 µg/L to 176 µg/L this period, but remain well over an order-of-magnitude compared to the pre-treatment concentration and within the range of typical variation in this well. Most of the increase in Total VOCs is due to chloroethane, which is a TCA biodegradation by-product.[1]

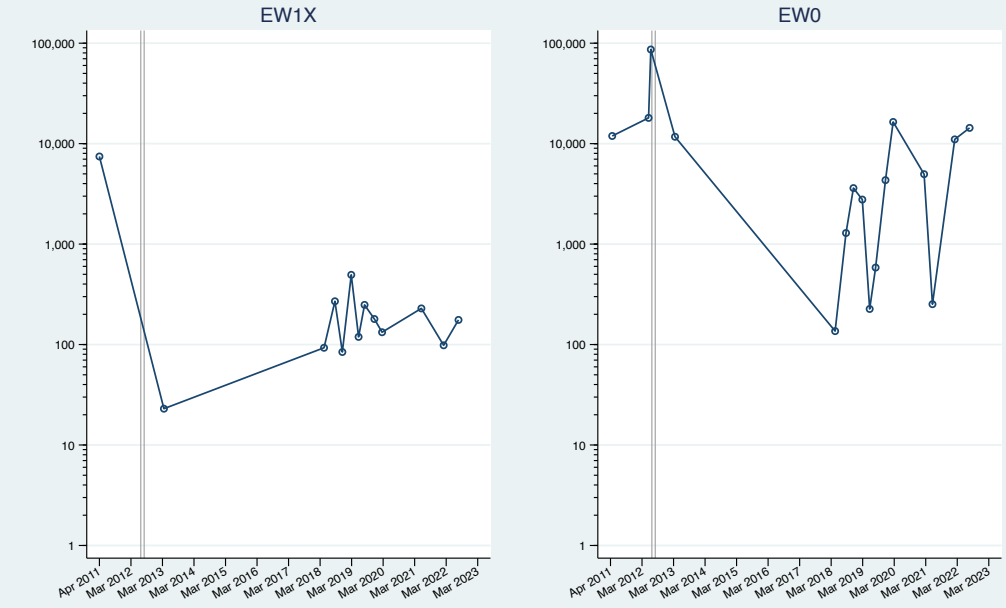
Figure 4. TCA in Treatment Area Groundwater, µg/L



Grey vertical lines show beginning and end of treatment period.
The 4,500 value in EW1X was collected near the EW1X location in 2001 and substituted as the pre-treatment value. It was infeasible to collect a pre-treatment sample in EW1X prior to treatment.

[1] Todd H. Wiedemeier et al., *Natural Attenuation of Fuels and Chlorinated Solvents in the Subsurface* (New York: John Wiley, 1999, p. 246.

Figure 5. Total VOCs in Treatment Area Groundwater, µg/L

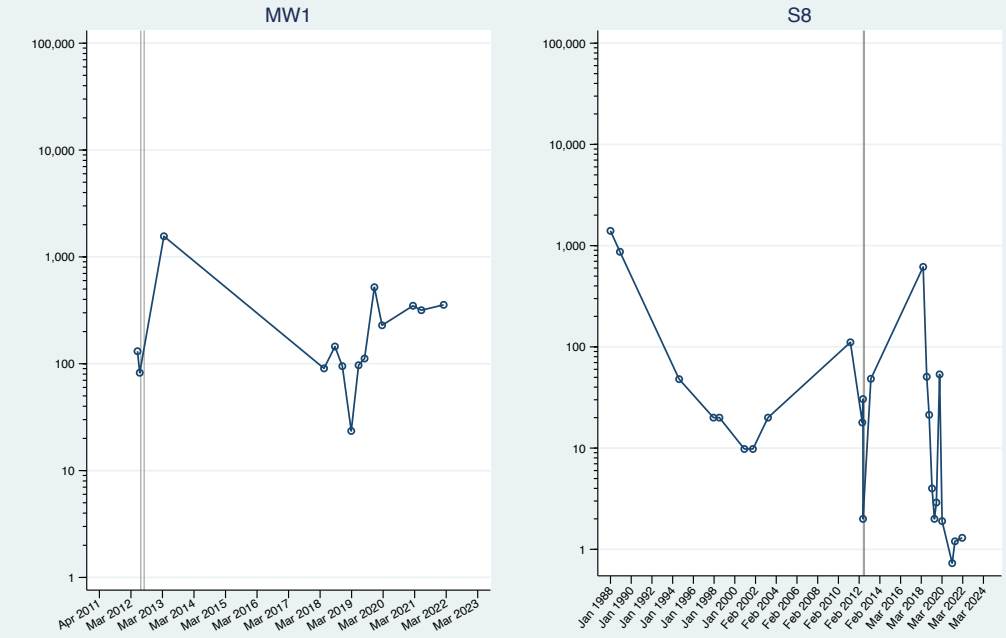


Grey vertical lines show beginning and end of treatment period.
The 7,455 value in EW1X was collected near the EW1X location in 2001 and substituted as the pre-treatment value. It was infeasible to collect a pre-treatment sample in EW1X prior to treatment.

Outside Treatment Area Wells

Monitoring wells MW-1 and S-8, are downgradient and outside the treatment area. Figures 6 and 7 show the results of groundwater sampling trends for TCA and Total VOCs in wells outside the treatment area. TCE in MW-1 remains about the same as previous measurements but still remains more than half an order-of-magnitude below the maximum concentration. TCA in S-8 remains about the same compared to the previous period and has remained below the TOGS AWQS standard of 5 µg/L for the last five monitoring periods.

Figure 6. TCA in Groundwater Wells Outside Treatment Area, µg/L



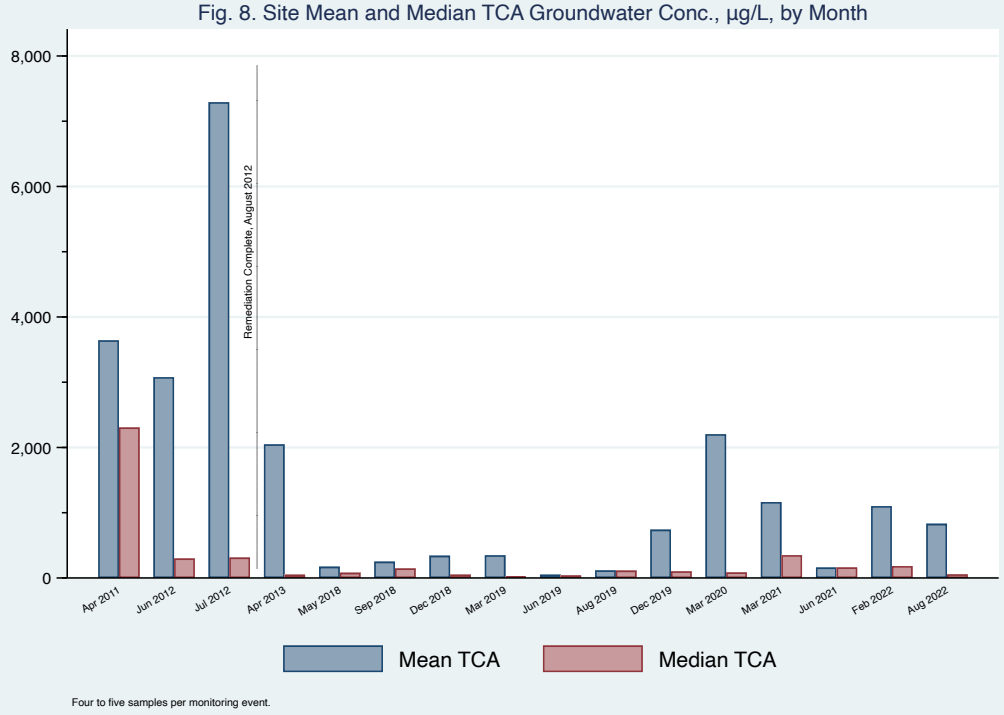
Grey vertical lines show beginning and end of treatment period.

Total VOCs again mirror those of TCA, remaining about the same in MW-1 and remaining very low in S-8.

Figure 7. Total VOCs in Groundwater Wells Outside Treatment Area, µg/L

Figure 8 shows the mean and median TCE groundwater concentrations before and after the remedy completed in 2012. There is a very large TCA reduction in the post-remedial period, albeit with some fluctuation. Most of this fluctuation is in EW-0. Nonetheless, overall TCA concentrations remain well below pre-remedy levels.

Fig. 8. Site Mean and Median TCA Groundwater Conc., µg/L, by Month



Four to five samples per monitoring event.

Groundwater Geochemical Conditions

Table 2 presents a running statistical summary of the basic groundwater parameters. Table 3 presents a running statistical summary of field groundwater parameters.

Table 2 – Geochemical Parameters

	Pre-remedy June 2012 n = 4			Post-treatment April 2013, n = 5			Qtr 2, 2018, n = 4/5 May 2018			Qtr 3, 2018 Sept. 2018, n = 5		
Parameter	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
CO_2, µg/L	--	--	--	--	--	--	80	2,500	3,090	240	2,220	9,720
CH_4, µg/L	--	--	--	--	--	--	0.36	13.9	3,980	4.2	25.9	87.2
Chloride, mg/L	47.7	112.5	162	37.1	52.6	114	16	29.1	102	31.5	49	54.5
Ethane, µg/L	--	--	--	--	--	--	nd	0.27	0.54	nd	0.45	0.77
Ethene, µg/L	--	--	--	--	--	--	nd	nd	0.55	nd	nd	0.58
Sulfate, mg/L	nd	20.2	59.7	nd	29.2	104	3.5	8.75	15.7	nd	11.8	78.2
Sulfide, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron, mg/L	1.25	3.4	218	0.546	0.81	934	0.19	1.12	2.23	0.22	1.1	11.6
Iron II, mg/L	--	--	--	--	--	--	nd	nd	nd	nd	nd	1.6
Alkalinity, mg/L	125	201	218	89.2	124	274	47.9	89	248	71.7	121	305

	Qtr 4, 2018 Dec. 2018, n = 4/5			Qtr 1, 2019 March. 2019, n = 5			Qtr 2, 2019 June 2019, n = 4			Qtr 3, 2019 Aug. 2019, n = 4/5		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
CO_2, µg/L	566	2,640	6,460	240	2,050	4.650	296	1,450	3,100	126	3,080	5,920
CH_4, µg/L	69.1	389	1,020	1.6	4.9	2,350	0.14	13.3	3,860	0.39	1	66.3
Chloride, mg/L	26.1	79.5	93.4	36.5	79.9	86.6	12.9	38.6	46.5	24.9	32.5	92.1
Ethane, µg/L	nd	3	8.1	nd	nd	0.51	nd	0.13	0.51	nd	nd	1
Ethene, µg/L	nd	nd	4.1	nd	nd	nd	nd	nd	nd	nd	nd	0.37
Sulfate, mg/L	2.2	15.2	18.8	4	21.4	31.4	2.4	6.5	13.3	2.1	8.2	17
Sulfide, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron, mg/L	0.13	0.76	1.51	77d	0.6	1.1	nd	0.33	1.7	0.17	1.84	3.38
Iron II, mg/L	nd	nd	0.21	nd	nd	nd	nd	nd	nd	nd	nd	nd
Alkalinity, mg/L	106	171	188	123	151	244	55	91	241	80	123	216

	Qtr 4, 2019 Dec. 2019, n = 5			Qtr 1, 2020 March 2020, n = 4/5			SA 1, 2021 March 2021, n = 3			SA 2, 2021 June 2021, n = 3		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
CO_2, µg/L	173	2,650	3,780	130	2,670	4,590	1,180	1,790	2,330	1,340	2,260	3,690
CH_4, µg/L	7.3	15.8	2,480	10.6	27.4	3,980	19.7	20.8	28.6	0.18	38.3	61
Chloride, mg/L	33.8	78	102	34.1	90.4	178	61	87.4	88.4	82.3	84.3	88.5
Ethane, µg/L	nd	nd	0.63	nd	0.3	0.57	nd	0	1.4	nd	nd	0.61
Ethene, µg/L	nd	nd	1.2	nd	nd	2.2	nd	nd	0.9	nd	nd	nd
Sulfate, mg/L	4.7	20	77.9	nd	16.1	78.7	24	30.2	42.5	16.1	17.2	17.7
Sulfide, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Iron, mg/L	0.1	0.53	4.4	nd	1.1	7.03	nd	0.47	1.1	396	570	775
Iron II, mg/L	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Alkalinity, mg/L	109	126	202	92	191	262	89	102	181	102	114	144

	SA, 2021 Feb. 2022, n = 3			SA, 2021 August 2022, n = 3		
	Min	p50	Max	Min	p50	Max
CO_2, µg/L	2,140	3,150	4,430	3,870	5,605	7,340
CH_4, µg/L	57	87	3,900	63.9	1,343	3,430
Chloride, mg/L	84	95	131	97.3	118	193
Ethane, µg/L	nd	1.5	3.2	nd	8.2	15.3
Ethene, µg/L	nd	nd	4.6	nd	nd	10.1
Sulfate, mg/L	14.4	14.6	16.5	2	8.1	16
Sulfide, mg/L	nd	nd	nd	nd	nd	nd
Iron, mg/L	479	709	1,540	3,200	6,720	12,000
Iron II, mg/L	nd	nd	nd	nd	nd	nd
Alkalinity, mg/L	105	106	193	187	192	432

Table 3 – Field Parameters

	Pre-remedy July 2012 n = 5			Post-treatment April 2013, n = 5			Qtr 2, 2018 May 2018, n = 4/5			Qtr 3, 2018 Sept. 2018, n = 5		
Field Parameter	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
pH	7.8	9.5	9.9	7.5	8.5	9.1	7.2	7.6	9.3	6.4	7.5	8.7
Cond., µS/cm	90	593	813	356	522	1,100	152	481	734	344	394	940
NTU	0	24	278	0	57	459	0.3	4	8.9	0.5	2.3	40
DO, mg/L	0	2.19	8.25	0.59	0.65	8.42	0.31	1.8	3.86	0.32	0.56	1.61
Temp. C	15.9	16.9	21.8	10.9	13.2	15.4	12.85	13.9	16.18	18.1	20.7	21.1
ORP, mV	-22	-98	-50	-659	-207	59	-164	-62	154	-223	-74	-73

	Qtr 4, 2018 Dec. 2018, n = 5			Qtr 1, 2019 March 2019, n = 4/5			Qtr 2, 2019 June 2019, n = 5			Qtr 3, 2019 Aug. 2019, n = 5		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
pH	5.35	5.87	7.25	5.48	7	8.7	6.67	7.11	8.2	6.54	6.86	8.35
Cond., µS/cm	0.601	0.890	1.09	0.529	0.56	0.713	0.007	0.338	0.826	0.12	0.45	.048
NTU	0	21.3	63.5	0.1	4.5	87.1	0	1	130	0	0	5
DO, mg/L	0.33	0.9	7.13	0.8	2	4.57	0	0.9	1.3	0	0	0.74
Temp. C	8.8	11.8	12.4	8.6	9.81	11.06	15.8	16.2	17.7	16.4	20.4	22.9
ORP, mV	-105	5	38	-157	4	187	-196	-101	164	-252	16	132

	Qtr 4, 2019 Dec. 2019, n = 5			Qtr 1, 2020 March 2020, n = 5			SA 1, 2021 March 2021, n = 3			SA 2, 2021 June 2021, n = 3		
	Min	p50	Max	Min	p50	Max	Min	p50	Max	Min	p50	Max
pH	6.92	7.22	8.61	6.8	6.58	8.4	6.7	7.1	7.6	6.1	6.4	6.7
Cond., µS/cm	0.474	0.525	0.561	0.359	0.735	0.939	0.349	0.367	0.439	0.302	0.313	0.315
NTU	0	1.5	37.2	0	2.1	150	0	0	0	0	13.2	44.1
DO, mg/L	0	1.11	1.74	0	0	0.86	0	0	2.05	0	0	0
Temp. C	10.1	10.97	12.3	8.9	9.7	12	9.1	9.5	11	15.7	16.6	17.3
ORP, mV	-17	84	284	-172	10	18	57	73	112	59	70	103

	SA 1, 2022 Feb. 2022, n = 4			SA 2, 2022 August 2022, n = 4		
	Min	p50	Max	Min	p50	Max
pH	6.8	7.2	8	5.9	7	7.3
Cond., µS/cm	0.513	0.609	0.693	0.49	0.70	0.89
NTU	0	22	149	0	67	159
DO, mg/L	0	0.7	5.31	0	0.12	1.3
Temp. C	11.7	13.7	14.6	17.2	20.7	26.7
ORP, mV	-32	35	84	-55	44	155

Sulfate is an electron acceptor and an energy source for microbial degradation. Sulfate is reduced to sulfide by microbes degrading contaminant. Sulfate was less than 17 mg/L, and sulfide was non-detect in all site samples this period, indicating that sulfate reduction is not an active biodegradation pathway.

Iron is an electron acceptor and an energy source for microbial degradation. Iron becomes more soluble when reduced to its dissolved state as Iron II (ferrous iron, Fe II) during microbial degradation. The median Fe II concentration was non-detect this period indicating that iron reduction is not an active biodegradation pathway.

Alkalinity is another indicator of microbial degradation and increased in response to microbial changes. Alkalinity this period was slightly higher than the previous period.

Dissolved oxygen (DO) is a key component of aerobic microbial degradation. DO remains low in most wells. The median DO concentration measured 0.12 mg/L, which is lower than the 0.5 mg/L considered the threshold for aerobic degradation to begin.

Oxidation Reduction Potential (ORP) ranged from -55 to 155 eV this period, which is not conducive to reductive dechlorination. Groundwater temperatures ranged from 17 to 26 degrees C this period.

Geochemical results and groundwater field parameters indicate insignificant biological activity occurred this period.

Degradation by-products

Despite the geochemical indicators being less than optimal for biodegradation, there are indications of ongoing biodegradation. Chloride concentrations have shown a steady increase since 2013, which is an indication of potential TCE breakdown as chlorinated ethenes contain a large mass of chlorine and is an indication of reductive dechlorination.[2] Likewise, methane has shown an overall gentle increase since 2018, but experienced an abrupt increase this sampling period, and is an indication that fermentation is occurring.[3] Carbon dioxide, an indicator of biological activity, increased this period. The levels of cis-1,2-DCE, vinyl chloride, and ethane, and chloroethane, increased this period, which are biodegradation by-products.

Net TCA and Total VOC Reduction in Groundwater

Table 4 shows the percent reduction in TCA and Total VOCs for the treatment area, outside the treatment area, and for all wells compared with the pre-treatment maximum concentrations. TCE and Total VOCs remain significantly lower than the pre-treatment maximum concentrations indicating there is no net material rebound. Overall, despite some fluctuation, TCA maintained a reduction of 94 percent and Total VOCs maintained an 84 percent reduction. This suggests sustained bulk reduction. A considerable portion of the Total VOCs are from a degradation compound.

[2] Todd H. Wiedemeier et al., *Natural Attenuation of Fuels and Chlorinated Solvents in the Subsurface* (New York: John Wiley, 1999, p. 266.
[3] Wiedemeier et al., *Natural Attenuation of Fuels and Chlorinated Solvents in the Subsurface, p. 266*.

Table 4A - Treatment Area Wells[4]

Well	TCA % Reduction	Total VOCs % Reduction
EW-1X	99	97
EW-0	93	83
Net Weighted Reduction	94	84

Table 4B - Downgradient Wells

Well	TCA % Reduction	Total VOCs % Reduction
S-8	>99	99
MW-1[5]	0.5	41
Net Weighted Reduction	96	77

Table 4C - All Wells

Well	TCA % Reduction	Total VOCs % Reduction
S-8	>99	99
EW-1X	99	97
EW-0	93	83
MW-1[2]	0.5	41
Net Weighted Reduction	94	84

Summary and Conclusions

The groundwater sampling results from the 3Q22 SA sampling event show TCA concentrations remain well below their pre-treatment maximum (or immediate post-treatment) concentrations and show an overall more-or-less steady trend, but with variability, particularly in EW-0. An exception is in S-8 where TCA has remained below the TOGS Class GA AWQS for almost two years.

Overall, TCA maintained a 94 percent reduction compared with the pre-treatment maximum and Total VOCs maintained an 84 percent reduction compared with the pre-treatment maximum. This is evidence of sustained bulk reduction.

Most wells have only a few detected VOC compounds and fewer still have VOCs above the TOGS GA AWQS. The number of VOCs above TOGS is seven or less (Figure 3). Despite groundwater conditions being less than optimal for biodegradation, there is evidence for reductive

[4] % Reduction is the percent reduction for each well compared to its pre-treatment maximum concentration. Net Weighted Reduction is the weighted reduction for all wells in the specific group shown.
[5] Using the maximum TCA or Total VOC concentration immediately after treatment

dechlorination in the form of degradation by-products and generally increasing methane and chloride concentrations.

Please contact us with any comments or questions.

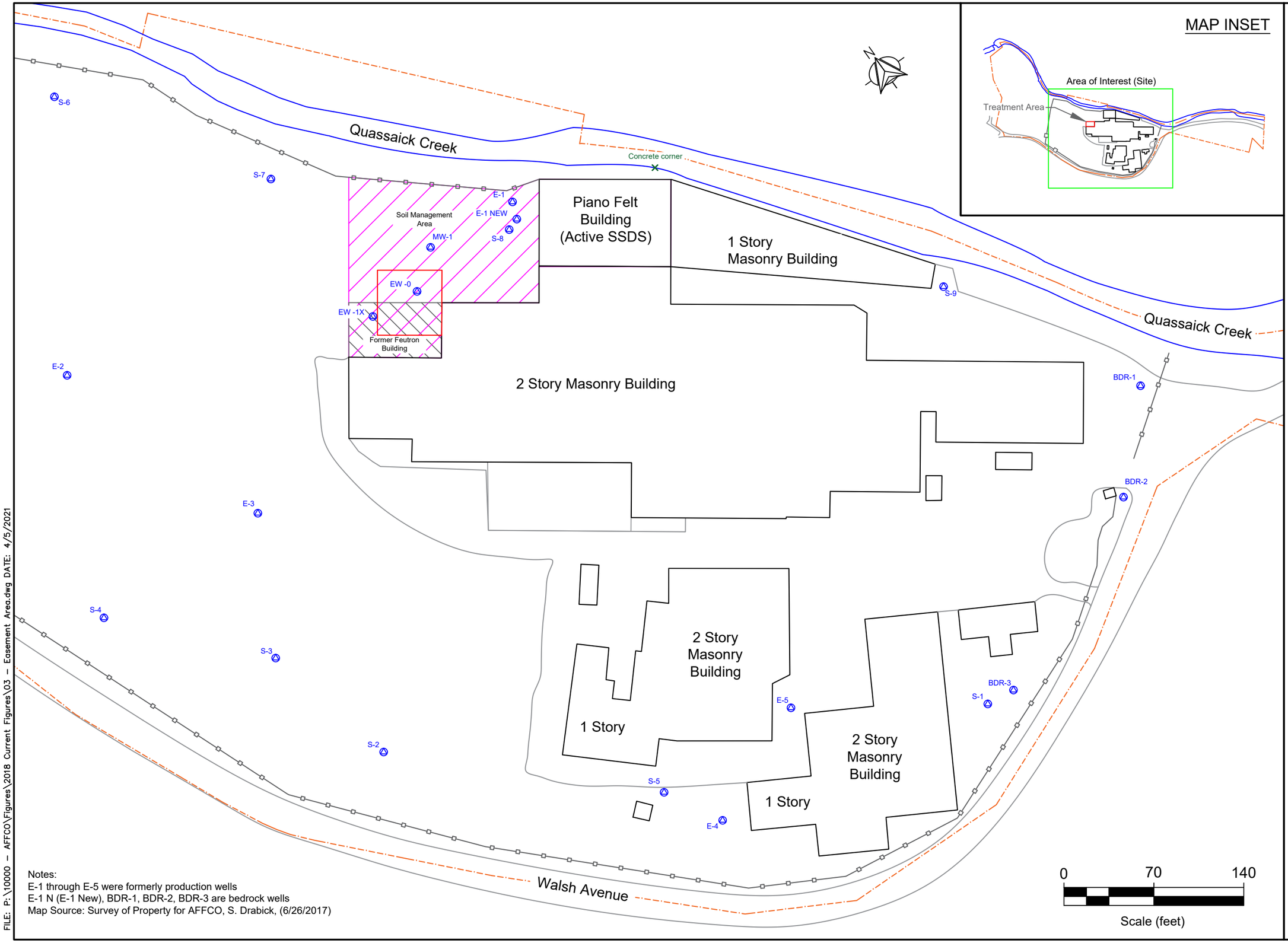
Sincerely,
Fleming-Lee Shue, Inc.

Arnold F. Fleming, P.E.
Remedial Engineer

cc: S. Panter, FLS

Attachments:

Figure 1 – Site Location Map
Figure 2 – Site Plan
Figure 3 – Groundwater Elevation Contours
Figure 4 – Groundwater above TOGS - VOCs
Table 1 – Consecutive Analytical Results by Well
Appendix A – Data Usability Summary Report
Appendix B – Well Development Logs
Appendix C – Laboratory Reports



MAP INSET

Notes:
E-1 through E-5 were formerly production wells
E-1 N (E-1 New), BDR-1, BDR-2, BDR-3 are bedrock wells
Map Source: Survey of Property for AFFCO, S. Drabick, (6/26/2017)

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Fleming Engineering

158 West 29th Street
New York, NY 10001

American Felt & Filter Co.
361 Walsh Avenue
New Windsor, NY

Figure 1

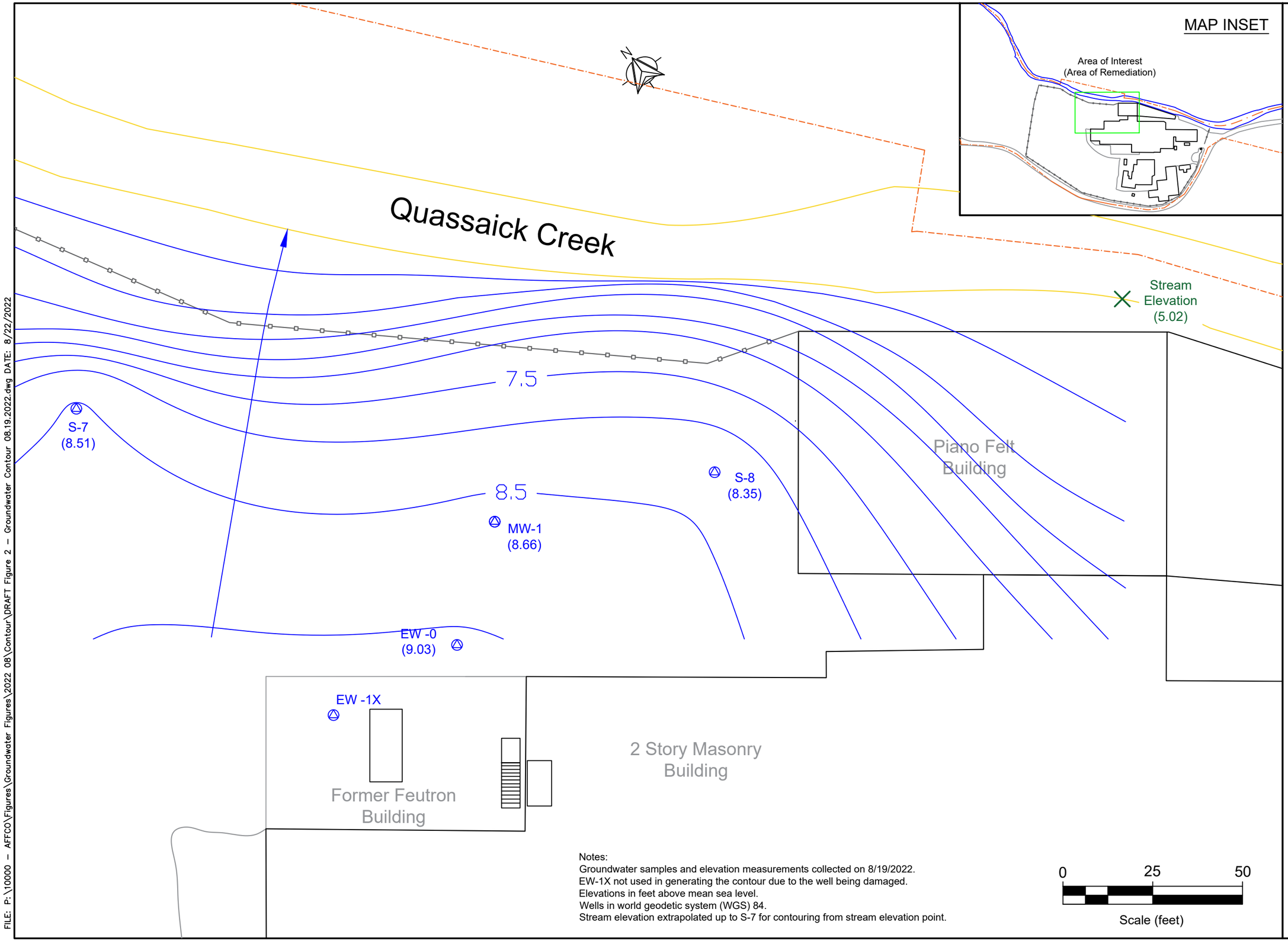
Site Layout & Environmental Easement

April 2021

Project Number
10000-015

LEGEND

- Environmental Easement and Soil Management Area
- Extent of Building Demolition
- Area of Remedial Excavation and *in-situ* Treatment
- Property Line
- Retaining Walls / Fence
- Groundwater Monitoring Well



Notes:
Groundwater samples and elevation measurements collected on 8/19/2022.
EW-1X not used in generating the contour due to the well being damaged.
Elevations in feet above mean sea level.
Wells in world geodetic system (WGS) 84.
Stream elevation extrapolated up to S-7 for contouring from stream elevation point.

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Figure 2

Groundwater Contours

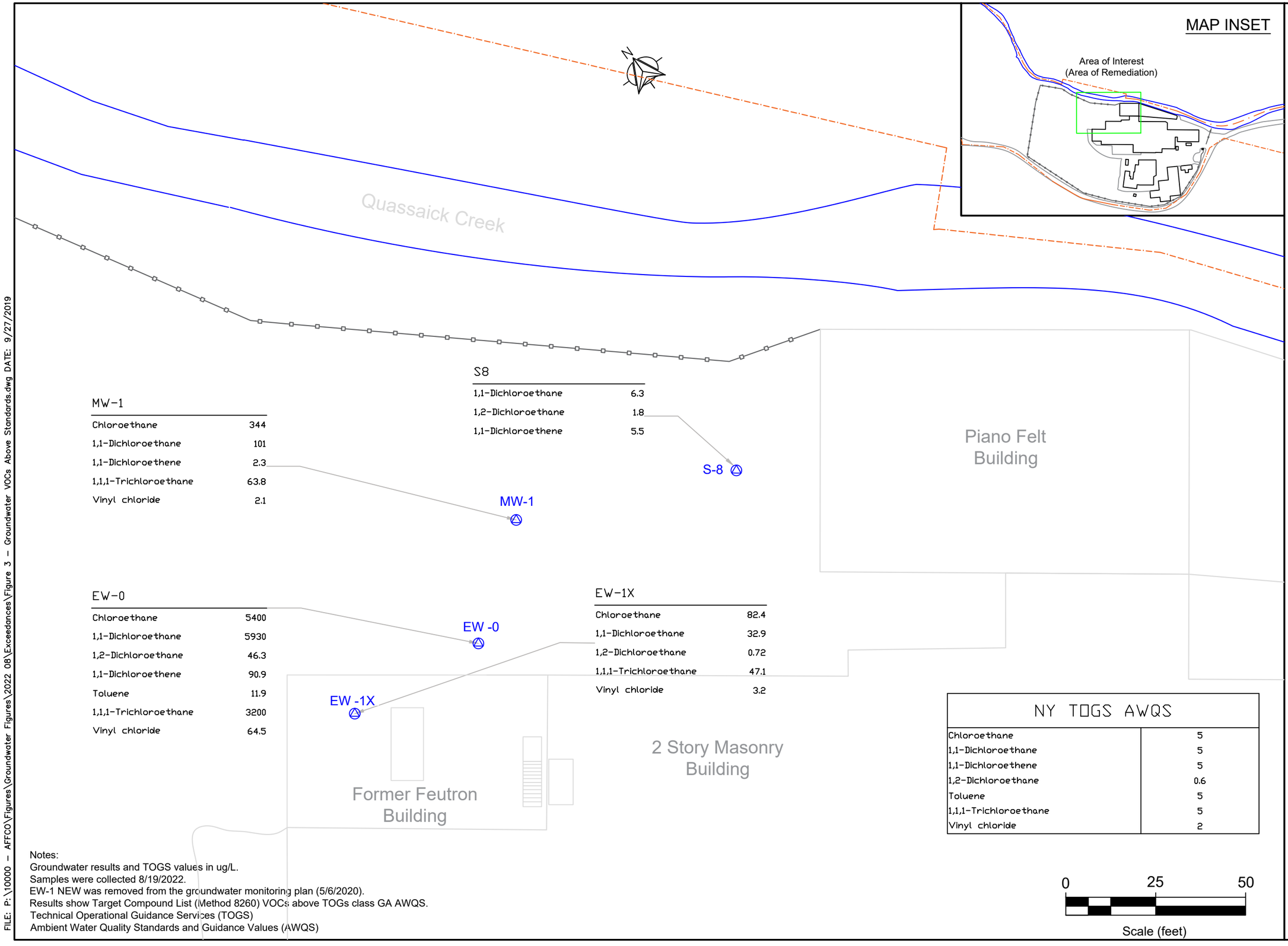
August 2022

Project Number
10000-015

LEGEND

- Groundwater monitoring well
- Groundwater Contour (dashed where inferred)
- Groundwater Flow Direction

FILE: P:\10000 - AFFCO\Figures\Groundwater Figures\2022 08\Contour\DRAFT Figure 2 - Groundwater Contour 08.19.2022.dwg DATE: 8/22/2022



Notes:
Groundwater results and TOGS values in ug/L.
Samples were collected 8/19/2022.
EW-1 NEW was removed from the groundwater monitoring plan (5/6/2020).
Results show Target Compound List (Method 8260) VOCs above TOGs class GA AWQS.
Technical Operational Guidance Services (TOGS)
Ambient Water Quality Standards and Guidance Values (AWQS)

FILE: P:\10000 - AFFCO\Figures\Groundwater Figures\2022 08\Exceedances\Figure 3 - Groundwater VOCs Above Standards.dwg DATE: 9/27/2019

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Figure 3

VOCs in Groundwater above TOGS GA AWQS

August 2022

Project Number
10000-015

LEGEND

Groundwater monitoring well

Table 1: AFFCO Cummulative Analytical Results by Well - VOCs
Groundwater Monitoring Report
American Felt Filter Company

MS Volatiles (SW846 8260C)																																
Client Sample ID:	NY TOGS Class GA	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0 DUP
Lab Sample ID:	GW Standards	-	-	JB34670-1	JC66265-5	JC66265-6	JC79790-5	JC85268-6	JC90279-6	JC94022-3	JD685-4	JD4855-3	-	JD26722-4	JD40427-4	JD50363-4	JB9172-1	JB10868-1	JB34670-3	JC66265-4	JC74100-3	JC79790-1	JC85268-1	JC90279-1	JC94022-5	JD685-2	JD4855-5	JD21587-4	JD26722-2	JD40427-2	JD50363-2	JD50363-5
Date Sampled:		6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	8/19/2022	6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	8/19/2022	8/19/2022
Acetone	50*	-	-	ND (33)	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	--	11.3	ND (3.1)	5.7 J	ND (330)	ND (330)	ND (3.3)	ND (5.0)	ND (15)	ND (60)	ND (24)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (120) *	ND (3.1)	ND (31)	ND (200) a	ND (200) a
Benzene	1	-	-	ND (2.4)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	--	ND (0.43)	ND (0.43)	ND (0.50)	ND (24)	ND (24)	ND (24)	ND (0.17)	ND (1.1)	ND (4.3)	ND (1.7)	ND (0.43)	ND (0.43)	ND (0.43)	ND (8.5)	ND (8.5)	ND (0.43)	ND (4.3)	ND (10)	ND (10)
Bromochloromethane	5	-	-	-	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	--	ND (0.48)	ND (0.48)	ND (1.0)	-	-	-	ND (0.38)	ND (1.2)	ND (4.8)	ND (1.9)	ND (0.48)	ND (0.48)	ND (0.48)	ND (9.6)	ND (9.6)	ND (0.48)	ND (4.8)	ND (20)	ND (20)
Bromodichloromethane	50*	-	-	ND (2.1)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	--	ND (0.45)	ND (0.45)	ND (1.0)	ND (21)	ND (21)	ND (0.21)	4.3	2.5	ND (5.8)	ND (2.3)	3.5	2.9	ND (0.58)	ND (12)	ND (9.0)	3.5	ND (4.5)	ND (20)	ND (20)
Bromoform	50*	-	-	ND (2.1)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63) a	ND (0.63)	ND (0.63)	ND (0.63)	--	ND (0.63)	ND (0.63)	ND (1.0)	ND (21)	ND (21)	ND (0.21)	ND (0.42)	ND (1.6)	ND (6.3)	ND (2.5)	ND (0.63) *	ND (0.63)	ND (0.63)	ND (13)	ND (13)	ND (0.63)	ND (6.3)	ND (20)	ND (20)
Bromomethane	5	-	-	ND (2.2)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6) a	--	ND (1.6)	ND (1.6) a	ND (2.0)	ND (22)	ND (22)	ND (0.22)	ND (1.4)	ND (4.1)	ND (16)	ND (6.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (33)	ND (33)	ND (1.6)	ND (16)	ND (40)	ND (40)
2-Butanone (MEK)	50*	-	-	ND (24)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	--	ND (6.9)	ND (6.9)	ND (10)	ND (240)	ND (240)	14.1	ND (4.8)	ND (17)	ND (69)	ND (27)	ND (6.9)	ND (6.9)	ND (6.9)	ND (140)	ND (140)	ND (6.9)	ND (69)	ND (200)	ND (200)
Carbon disulfide	60	-	-	ND (1.9)	ND (0.50)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	--	ND (0.46)	ND (0.46)	ND (2.0)	ND (19)	ND (19)	ND (0.19)	ND (0.50)	ND (2.4)	ND (9.5)	ND (3.8)	ND (0.95)	ND (0.95)	ND (0.95)	ND (19)	ND (9.1)	ND (0.46)		ND (40)	ND (40)
Carbon tetrachloride	5	-	-	ND (2.2)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	--	ND (0.55)	ND (0.55)	ND (1.0)	ND (22)	ND (22)	ND (0.22)	ND (0.34)	ND (1.4)	ND (5.5)	ND (2.2)	ND (0.55)	ND (0.55)	- ND (11)		ND (11)	ND (0.55)	ND (5.5)	ND (20)	ND (20)
Chlorobenzene	5	-	-	ND (2.3)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	--	ND (0.56)	ND (0.56)	ND (1.0)	ND (23)	ND (23)	ND (0.23)	ND (0.24)	ND (1.4)	ND (5.6)	ND (2.2)	ND (0.56)	ND (0.56)	ND (0.56)	ND (11)	ND (11)	ND (0.56)	ND (5.6)	ND (20)	ND (20)
Chloroethane	5	-	-	ND (2.6)	ND (0.59)	ND (0.73)	0.97 J	**28.3**	**27.4**	**7.7**	4.4	2.7	--	**19.2**	**70**	**82.4**	**1280**	**1240**	**334**	ND (0.59)	**72.9**	**1100**	**297**	**8.4**	**57.2**	**159**	**651**	**495**	1.8	**2620**	**5250**	**5400**
Chloroform	7	-	-	ND (2.0)	ND (0.29)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	--	ND (0.50)	ND (0.50)	ND (1.0)	ND (20)	ND (20)	1.2	**43.3**	**29.3**	**13.7**	7	**41.8**	**54.2**	**8.8**	ND (10)	**10.1 J**	**11.9**	**34.4**	ND (20)	ND (20)
Chloromethane	5	-	-	ND (2.1)	ND (0.53)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	--	ND (0.76)	ND (0.76)	ND (1.0)	ND (21)	ND (21)	ND (0.21)	ND (0.53)	ND (1.9)	ND (7.6)	ND (3.0)	ND (0.76)	ND (0.76)	ND (0.76)	ND (15)	ND (15)	ND (0.76)	ND (7.6)	ND (20)	ND (20)
Cyclohexane	-	-	-	-	ND (0.63)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	--	ND (0.78)	ND (0.78)	ND (5.0)	-	-	-	ND (0.63)	ND (2.0)	ND (7.8)	ND (3.1)	ND (0.78)	ND (0.78)	ND (0.78)	ND (16)	ND (16)	ND (0.78)	ND (7.8)	ND (100)	ND (100)
1,2-Dibromo-3-chloropropane	0.04	-	-	-	ND (0.69)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	--	ND (0.53)	ND (0.53)	ND (2.0)	-	-	-	ND (0.69)	ND (3.0)	ND (12)	ND (4.8)	ND (1.2)	ND (1.2)	ND (1.2)	ND (24)	ND (24)	ND (0.53)	ND (5.3)	ND (40)	ND (40)
Dibromochloromethane	50*	-	-	ND (1.4)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	--	ND (0.56)	ND (0.56)	ND (1.0)	ND (14)	ND (14)	ND (0.14)	ND (0.16)	ND (1.4)	ND (5.6)	ND (2.2)	ND (0.56)	ND (0.56)	ND (0.56)	ND (11)	ND (11)	1.8	ND (5.6)	ND (20)	ND (20)
1,2-Dibromoethane	0.0006	-	-	-	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	--	ND (0.48)	ND (0.48)	ND (1.0)	-	-	-	ND (0.21)	ND (1.2)	ND (4.8)	ND (1.9)	ND (0.48)	ND (0.48)	ND (0.48)	ND (9.5)	ND (9.5)	ND (0.48)	ND (4.8)	ND (20)	ND (20)
1,2-Dichlorobenzene	3	-	-	-	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	--	ND (0.53)	ND (0.53)	ND (1.0)	-	-	-	ND (0.50)	ND (1.3)	ND (5.3)	ND (2.1)	ND (0.53)	ND (0.53)	ND (0.53)	ND (11)	ND (11)	ND (0.53)	ND (5.3)	ND (20)	ND (20)
1,3-Dichlorobenzene	3	-	-	-	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	--	ND (0.54)	ND (0.54)	ND (1.0)	-	-	-	ND (0.50)	ND (1.4)	ND (5.4)	ND (2.2)	ND (0.54)	ND (0.54)	ND (0.54)	ND (11)	ND (11)	ND (0.54)	ND (5.4)	ND (20)	ND (20)
1,4-Dichlorobenzene	3	-	-	-	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	--	ND (0.51)	ND (0.51)	ND (1.0)	-	-	-	ND (0.50)	ND (1.3)	ND (5.1)	ND (2.0)	ND (0.51)	ND (0.51)	ND (0.51)	ND (10)	ND (10)	ND (0.51)	ND (5.1)	ND (20)	ND (20)
Dichlorodifluoromethane	5	-	-	-	ND (1.9) *	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	--	ND (0.56) a	ND (0.56)	ND (2.0)	-	-	-	ND (1.9) *	ND (3.4)	ND (14)	ND (5.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (27)	ND (27)	ND (0.56) *	ND (5.6)	ND (40)	ND (40)
1,1-Dichloroethane	5	-	-	**22.9**	**25.4**	**56.6**	**33.3**	**253**	**51**	**77.3**	**71.3**	**44.5**	--	**69**	**14.6**	**32.9**	**3450**	**36100**	**2540**	**9.7**	**304**	**921**	**956**	**66.4**	**153**	**1060**	**4930**	**1240**	**31.8**	**4220**	**5680**	**5930**
1,2-Dichloroethane	0.6	-	-	ND (2.6)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	--	ND (0.60)	ND (0.60)	**0.72 J**	ND (26)	**233**	**17.5**	ND (0.20)	**3.1**	**14.3**	**5.7**	**0.84 J**	**2.4**	**4.5**	**15.2 J**	ND (12)	**0.72 J**	**16.3**	**46.2**	**46.3**
1,1-Dichloroethene	5	-	-	ND (1.9)	1	2.7	1	2.3	1.4	2.2	2.4	1.1	--	1.5	2.4	3.1	**220**	**562**	**144**	0.85 J	**38.3**	**82.4**	**8.8**	1.5	4.2	**74.9**	**151**	**54.6**	2.3	**82.1**	**90.9**	**83.8**
cis-1,2-Dichloroethene	5	-	-	ND (1.9)	ND (0.50)	0.58 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	--	0.62 J	0.74 J	0.79 J	ND (19)	ND (19)	2.8	ND (0.50)	ND (1.3)	ND (5.1)	ND (2.0)	ND (0.51)	0.61 J	0.54 J	ND (10)	ND (10)	ND (0.51)	ND (5.1)	ND (20)	ND (20)
trans-1,2-Dichloroethene	5	-	-	ND (2.1)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	--	ND (0.54)	ND (0.54)	ND (1.0)	ND (21)	ND (21)	2.2	ND (0.40)	ND (1.3)	ND (5.4)	ND (2.1)	ND (0.54)	ND (0.54)	0.57 J	ND (11)	ND (11)	ND (0.54)	ND (5.4)	ND (20)	ND (20)
1,2-Dichloroethene (total)	-	-	-	ND (1.9)	-	-	-	-	-	-	-	-	--	-	-	-	ND (19)	ND (19)	5	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	-	-	ND (4.8)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	--	ND (0.51)	ND (0.51)	ND (1.0)	ND (48)	ND (48)	ND (0.48)	ND (0.24)	ND (1.3)	ND (5.1)	ND (2.0)	ND (0.51)	ND (0.51)	ND (0.51)	ND (10)	ND (10)	ND (0.51)	ND (5.1)	ND (20)	ND (20)
cis-1,3-Dichloropropene	0.4	-	-	ND (2.1)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	--	ND (0.47)	ND (0.47)	ND (1.0)	ND (21)	ND (21)	ND (0.21)	ND (0.25)	ND (1.2)	ND (4.7)	ND (1.9)	ND (0.47)	ND (0.47)	ND (0.47)	ND (9.4)	ND (9.4)	ND (0.47)	ND (4.7)	ND (20)	ND (20)
trans-1,3-Dichloropropene	0.4	-	-	ND (1.9)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	--	ND (0.43)	ND (0.43)	ND (1.0)	ND (19)	ND (19)	ND (0.19)	ND (0.22)	ND (1.1)	ND (4.3)	ND (1.7)	ND (0.43)	ND (0.43)	ND (0.43)	ND (8.6)	ND (8.6)	ND (0.43)	ND (4.3)	ND (20)	ND (20)
1,4-Dioxane		-	-	-	ND (52)	ND (69) a	ND (69) a	ND (69)	ND (69)	ND (69)	ND (69)	ND (69)	--	19.3 J	24.5 J	49.1 J	-	-	-	ND (52)	ND (170)	ND (690) a	ND (280)	ND (69)	ND (69)	ND (69)	ND (1400)	ND (1400)	ND (19)	ND (190)	ND (2500)	ND (2500)
Ethylbenzene	5	-	-	ND (2.3)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	--	ND (0.60)	ND (0.60)	ND (1.0)	ND (23)	ND (23)	ND (0.23)	ND (0.22)	ND (1.5)	ND (6.0)	ND (2.4)	ND (0.60)	ND (0.60)	ND (0.60)	ND (12)	ND (12)	ND (0.60)	ND (6.0)	ND (20)	ND (20)
Freon 113	5	-	-	-	ND (1.2)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	--	ND (0.58)	ND (0.58)	ND (5.0)	-	-	-	ND (1.2)	ND (4.9)	ND (19)	ND (7.8)	ND (1.9)	ND (1.9)	ND (1.9)	ND (39)	ND (39)	ND (0.58)	ND (5.8)	ND (100)	ND (100)
2-Hexanone	50*	-	-	ND (11)	ND (3.3)	ND (2.0) a	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	--	ND (2.0)	ND (2.0)	ND (5.0) a	ND (110)	ND (110)	ND (1.1)	ND (3.3)	ND (5.1)	ND (20)	ND (8.1)	ND (2.0)	ND (2.0)	ND (2.0)	ND (41)	ND (41)	ND (2.0)	ND (20)	ND (100) a	ND (100) a
Isopropylbenzene	5	-	-	-	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	--	ND (0.65)	ND (0.65)	ND (1.0)	-	-	-	ND (0.25)	ND (1.6)	ND (6.5)	ND (2.6)	ND (0.65)	ND (0.65)	ND (0.65)	ND (13)	ND (13)	ND (0.65)	ND (6.5)	ND (20)	ND (20)
Methyl Acetate	-	-	-	-	ND (3.1)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	--	ND (0.80)	ND (0.80) b	ND (5.0) a	-	-	-	ND (3.1)	ND (2.0)	ND (8.0)	ND (3.2)	ND (0.80)	ND (0.80)	ND (0.80)	ND (16)	ND (16)	ND (0.80)	ND (8.0) b	ND (100) a	ND (100) a
Methylcyclohexane	-	-	-	-	ND (1.8)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	--	ND (0.60)	ND (0.60)	ND (5.0)	-	-	-	ND (1.8)	ND (1.5)	ND (6.0)	ND (2.4)	ND (0.60)	ND (0.60)	ND (0.60)	ND (12)	ND (12)	ND (0.60)	ND (6.0)	ND (100)	ND (100)
Methyl Tert Butyl Ether	10	-	-	ND (1.6)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	--	ND (0.51)	ND (0.51)	ND (1.0)	ND (16)	ND (16)	ND (0.16)	ND (0.25)	ND (1.3)	ND (5.1)	ND (2.0)	ND (0.51)	ND (0.51)	ND (0.51)	ND (10)	ND (10)	ND (0.51)	ND (5.1)	ND (20)	ND (20)
4-Methyl-2-pentanone(MIBK)	-	-	-	ND (8.3)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	--	ND (1.9)	ND (1.9)	ND (5.0) a	ND (83)	ND (83)	ND (0.83)	ND (3.0)	ND (4.6)	ND (19)	ND (7.4)	ND (1.9)	ND (1.9)	ND (1.9)	ND (37)	ND (37)	ND (1.9)	ND (19)	ND (100) a	ND (100) a
Methylene chloride	5	-	-	ND (7.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	--	ND (1.0)	ND (1.0)	ND (2.0)	ND (70)	ND (70)	ND (0.70)	ND (1.0)	ND (2.5)	ND (10)	ND (4.0)	ND (1.0)	2.5	1.2 J	ND (20)	ND (20)	ND (1.0)	ND (10)	ND (40)	ND (40)
Styrene	5	-	-	ND (2.1)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	--	ND (0.49)	ND (0.49)	ND (1.0)	ND (21)	ND (21)	ND (0.21)	ND (0.24)	ND (1.7)	ND (7.0)	ND (2.8)	ND (0.70)	ND (0.70)	ND (0.70)	ND (14)	ND (9.7)	ND (0.49)	ND (4.9)	ND (20)	ND (20)
1,1,2,2-Tetrachloroethane	5	-	-	ND (2.1)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	--	ND (0.65)	ND (0.65)	ND (1.0)	ND (21)	ND (21)	ND (0.21)	ND (0.17)	ND (1.6)	ND (6.5)	ND (2.6)	ND (0.65)	ND (0.65)	ND (0.65)	ND (13)	ND (13)	ND (0.65)	ND (6.5)	ND (20)	ND (20)
Tetrachloroethene	5	-	-	ND (2.8)	ND (0.50)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	--	ND (0.90)	ND (0.90)	ND (1.0)	ND (28)	ND (28)	0.60 J	ND (0.50)	ND (2.2)	ND (9.0)	ND (3.6)	ND (0.90)	ND (0.90)	ND (0.90)	ND (18)	**30.5**	ND (0.90)	ND (9.0)	ND (20)	ND (20)
Toluene	5	-	-	ND (2.3)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	--	ND (0.53)	ND (0.53)	ND (1.0)	ND (23)	**60.5 J**	**8**	ND (0.25)	ND (1.3)	ND (5.3)	ND (2.1)	ND (0.53)	ND (0.53)	ND (0.53)	ND (11)	ND (11)	ND (0.53)	ND (5.3)	**11.9 J**	**11.7 J**
1,2,3-Trichlorobenzene	5	-	-	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	--	ND (0.50)	ND (0.50)	ND (1.0)	-	-	-	ND (0.50)	ND (1.3)	ND (5.0)	ND (2.0)	ND (0.50)	ND (0.50)	ND (0.50)	ND (10)	ND (10)	ND (0.50)	ND (5.0)	ND (20)	ND (20)
1,2,4-Trichlorobenzene	5	-	-	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	--	ND (0.50)	ND (0.50)	ND (1.0)	-	-	-	ND (0.50)	ND (1.3)	ND (5.0)	ND (2.0)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (10)	ND (10)	ND (0.50)	ND (5.0)	ND (20)	ND (20)
1,1,1-Trichloroethane	5	-	-	ND (2.4)	**66.5**	**208**	**49.1**	**209**	**39.5**	**160**	**101**	**84.4**	--	**126**	**7.9**	**47.1**	**13100**	**48300**	**8630**	**77.6**	**838**	**1530**	**1500**	**103**	**304**	**3020**	**10700**	**3140**	**196**	**4040**	**3200**	**3120**
1,1,2-Trichloroethane	1	-	-	ND (2.9)	ND (0.24)	0.89 J	ND (0.53)	1	ND (0.53)	0.68 J	0.59 J	ND (0.53)	--	0.54 J	ND (0.53)	ND (1.0)	ND (29)	**34.5 J**	**2.3**	ND (0.24)	**ND (1.3)**	ND (5.3)	ND (2.1)	ND (0.53)	0.64 J	ND (0.53)	ND (11)	ND (11)	0.74 J	ND (5.3)	ND (20)	ND (20)
Trichloroethene	5	-	-	ND (2.2)	ND (0.27)	0.92 J	ND (0.53)	0.62 J	ND (0.53)	0.57 J	ND (0.53)	ND (0.53)	--	0.92 J	ND (0.53)	ND (1.0)	ND (22)	ND (22)	4	0.43 J	2.0 J	ND (5.3)	ND (2.1)	0.69 J	1.5	1.4	ND (11)	ND (11)	1.7	ND (5.3)	ND (20)	ND (20)
Trichlorofluoromethane	5	-	-	-	ND (0.60)	ND (0.84)	ND (0.84) a	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	--	ND (0.40)	ND (0.40)	ND (2.0)	-	-	-	ND (0.60)	ND (2.1)	ND (8.4) a	ND (3.3)	ND (0.84)	ND (0.84)	ND (0.84)	ND (17)	ND (8.0)	ND (0.40)	ND (4.0)	ND (40)	ND (40)
Vinyl chloride	2	-	-	ND (2.1)	ND (0.62)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	--	ND (0.79)	**2.7**	**3.2**	ND (21)	ND (21)	**4.8**	ND (0.62)	ND (2.0)	**8.3 J**	ND (3.1)	ND (0.79)	0.93 J	**3.7**	ND (16)	ND (16)	ND (0.79)	**16.9**	**64.5**	**62.1**
m,p-Xylene	5	-	-	-	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	--	ND (0.78)	ND (0.78)	ND (1.0)	-	-	-	ND (0.43)	ND (2.0)	ND (7.8)	ND (3.1)	ND (0.78)	ND (0.78)	ND (0.78)	ND (16)	ND (16)	ND (0.78)	ND (7.8)	ND (20)	ND (20)
o-Xylene	5	-	-	-	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	--	ND (0.59)	ND (0.59)	ND (1.0)	-	-	-	ND (0.22)	ND (1.5)	ND (5.9)	ND (2.4)	ND (0.59)	ND (0.59)	ND (0.59)	ND (12)	ND (12)	ND (0.59)	ND (5.9)	ND (20)	ND (20)
Xylene (total)	5	-	-	ND (2.4)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	--	ND (0.59)	ND (0.59)	ND (1.0)	ND (24)	ND (24)	ND (0.24)	ND (0.22)	ND (1.5)	ND (5.9)	ND (2.4)	ND (0.59)	ND (0.59)	ND (0.59)	ND (12)	ND (12)	ND (0.59)	ND (5.9)	ND (20)	ND (20)

Notes
Concentrations in ug/L
Exceedances in TOGS highlighted in yellow and **bolded**
EW-1 NEW removed from the monitoring well network (5/6/2020)
ND = Not detected (below detection limit)
J = Estimated concentration
-- = Not Sampled Dry Well
* = Guidance Value
P = Product in Well, Not Sampled

Table 1: AFFCO Cummulative Analytical Results by Well - VOCs
Groundwater Monitoring Report
American Felt Filter Company

MS Volatiles (SW846 8260C) Client Sample ID:	NY TOGS Class GA GW Standards	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1 DUP	MW-1	MW-1 DUP	MW-1	MW-1
Lab Sample ID:		JB9172-5	JB10868-2	JB34670-5	JC66265-1	JC74100-2	JC79790-6	JC85268-7	JC90279-4	JC94022-4	JD685-5	JD4855-4	JD21587-1	JD21587-2	JD26722-1	JD26722-5	JD40427-1	JD50363-3
Date Sampled:		6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	3/10/2021	6/15/2021	6/15/2021	2/28/2022	8/19/2022
Acetone	50*	99.7	ND (8.2)	ND (16)	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0) [a]	ND (6.0) [a]	ND (3.1) [a]	ND (3.1) [a]	ND (3.1)	8.0 J
Benzene	1	ND (0.47)	ND (0.59)	ND (1.2)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.50)
Bromochloromethane	5	-	-	-	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (1.0)
Bromodichloromethane	50*	ND (0.41)	ND (0.52)	ND (1.0)	2.4	ND (0.58)	0.66 J	3.9	3.9	0.61 J	ND (0.58)	ND (0.58)	0.63 J	0.59 J	1.3	0.98 J	0.52 J	ND (1.0)
Bromoform	50*	ND (0.43)	ND (0.54)	ND (1.1)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63) [a]	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (1.0)
Bromomethane	5	ND (0.44)	ND (0.55)	ND (1.1)	ND (1.4)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6) [b]	ND (1.6) [b]	ND (1.6) a	ND (2.0)
2-Butanone (MEK)	50*	184	ND (5.9)	ND (12)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (10)
Carbon disulfide	60	ND (0.38)	ND (0.47)	ND (0.95)	ND (0.50)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	0.74 J
Carbon tetrachloride	5	ND (0.43)	ND (0.54)	ND (1.1)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (1.0)
Chlorobenzene	5	ND (0.46)	ND (0.57)	ND (1.1)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (1.0)
Chloroethane	5	**228**	**641**	**136**	**9.1**	**168**	**168**	**8.5**	**8.7**	**32.9**	**4.4**	**41.3**	**12.4**	**8.6**	**25**	**24**	**62.1**	**344**
Chloroform	7	ND (0.41)	ND (0.51)	3.1 J	**29.3**	**21.6**	**7.5**	**12.1**	**40**	**29.1**	**4.9**	**2.2**	3.8	3.5	**8.3**	**7.7**	4.8	0.87 J
Chloromethane	5	ND (0.41)	ND (0.52)	ND (1.0)	ND (0.53)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76) [b]	ND (0.76) [b]	ND (0.76)	ND (1.0)
Cyclohexane	-	-	-	-	ND (0.63)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (5.0)
1,2-Dibromo-3-chloropropane	0.04	-	-	-	ND (0.69)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (0.53)	ND (0.53)	ND (0.53)	ND (2.0)
Dibromochloromethane	50*	ND (0.27)	ND (0.34)	ND (0.68)	ND (0.16)	ND (0.56)	ND (0.56)	2.1	0.69 J	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (1.0)
1,2-Dibromoethane	0.0006	-	-	-	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (1.0)
1,2-Dichlorobenzene	3	-	-	-	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (1.0)
1,3-Dichlorobenzene	3	-	-	-	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (1.0)
1,4-Dichlorobenzene	3	-	-	-	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (1.0)
Dichlorodifluoromethane	5	-	-	-	ND (1.9) [a]	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (0.56) [b]	ND (0.56) [b]	ND (0.56)	ND (2.0)
1,1-Dichloroethane	5	**84.7**	**146**	**438**	**23.9**	**125**	**60.9**	**5.5**	**12**	**37.1**	**31**	**76.1**	**36.3**	**32.3**	**83.6**	**82.8**	**57.2**	**101**
1,2-Dichloroethane	0.6	**2.9**	**4.8**	**5.2**	ND (0.20)	**1**	**0.82 J**	ND (0.60)	ND (0.60)	0.78 J	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	**2.3**
1,1-Dichloroethene	5	4.1	**6**	**36.6**	2.1	3.3	1.4	ND (0.59)	1.2	1.3	3.7	1.4	2.6	2.6	2.8	2.9	**6.4**	1.1
cis-1,2-Dichloroethene	5	ND (0.38)	0.73 J	ND (0.94)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.83 J	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	0.74 J
trans-1,2-Dichloroethene	5	ND (0.42)	ND (0.53)	ND (1.1)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	0.67 J
1,2-Dichloroethene (total)	-	ND (0.38)	0.73 J	ND (0.94)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	ND (0.97)	ND (1.2)	ND (2.4)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (1.0)
cis-1,3-Dichloropropene	0.4	ND (0.41)	ND (0.52)	ND (1.0)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (1.0)
trans-1,3-Dichloropropene	0.4	ND (0.38)	ND (0.47)	ND (0.95)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (1.0)
1,4-Dioxane	-	-	-	-	ND (52)	ND (69) a	ND (69) a	ND (69)	ND (69)	ND (69)	ND (69)	ND (69)	ND (69)	ND (69)	ND (19)	ND (19)	ND (19)	ND (130)
Ethylbenzene	5	ND (0.46)	ND (0.57)	ND (1.1)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (1.0)
Freon 113	5	-	-	-	ND (1.2)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (0.58)	ND (0.58)	ND (0.58)	ND (5.0)
2-Hexanone	50*	ND (2.3)	ND (2.8)	ND (5.7)	ND (3.3)	ND (2.0) a	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (5.0) a
Isopropylbenzene	5	-	-	-	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (1.0)
Methyl Acetate	-	-	-	-	ND (3.1)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80) b	ND (5.0) a
Methylcyclohexane	-	-	-	-	ND (1.8)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (5.0)
Methyl Tert Butyl Ether	10	ND (0.33)	ND (0.41)	ND (0.82)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (1.0)
4-Methyl-2-pentanone(MIBK)	-	ND (1.7)	ND (2.1)	ND (4.1)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (5.0) a
Methylene chloride	5	ND (1.4)	ND (1.8)	ND (3.5)	ND (1.0)	3.4	1.7 J	ND (1.0)	ND (1.0)	4.6	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)
Styrene	5	ND (0.43)	ND (0.54)	ND (1.1)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (1.0)
1,1,2,2-Tetrachloroethane	5	ND (0.43)	ND (0.54)	ND (1.1)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (1.0)
Tetrachloroethene	5	ND (0.56)	ND (0.70)	ND (1.4)	ND (0.50)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (1.0)
Toluene	5	ND (0.45)	ND (0.57)	1.6 J	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (1.0)
1,2,3-Trichlorobenzene	5	-	-	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)
1,2,4-Trichlorobenzene	5	-	-	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)
1,1,1-Trichloroethane	5	**131**	**82.4**	**1560**	**90.5**	**145**	**95**	**23.5**	**96.9**	**112**	**520**	**229**	**349**	**370**	**317**	**326**	**356**	**63.8**
1,1,2-Trichloroethane	1	ND (0.57)	ND (0.72)	ND (1.4)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (1.0)
Trichloroethene	5	1.1 J	1.6 J	**6.2**	1.2	2.2	1.4	ND (0.53)	0.57 J	0.84 J	0.76 J	0.80 J	0.85 J	0.84 J	0.93 J	1	0.81 J	0.66 J
Trichlorofluoromethane	5	-	-	-	ND (0.60)	ND (0.84)	ND (0.84) a	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (2.0)
Vinyl chloride	2	0.91 J	2.0 J	ND (1.0)	ND (0.62)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	**2.1**
m,p-Xylene	5	-	-	-	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (1.0)
o-Xylene	5	-	-	-	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (1.0)
Xylene (total)	5	ND (0.48)	ND (0.60)	ND (1.2)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (1.0)

MS Volatiles (SW846 8260C) Client Sample ID:	NY TOGS Class GA GW Standards	S-8	S-8	S-8	S-8	S-8	S8	S-8	S-8	S-8	S-8	S-8	S-8	S-8	S-8	S-8 DUP	S-8
Lab Sample ID:		JB9172-6	JB10868-3	JB34670-2	JC66265-3	JC74100-4	JC79790-3	JC85268-2	JC90279-2	JC94022-2	JD685-3	JD4855-2	JD21587-3	JD26722-3	JD40427-3	JD40427-5	JD50363-1
Date Sampled:		6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	2/28/2022	8/19/2022
Acetone	50*	ND (3.3)	ND (3.3)	ND (3.3)	ND (25)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0) [a]	ND (3.1) [a]	ND (3.1)	ND (3.1)	ND (10) a
Benzene	1	ND (0.24)	ND (0.24)	ND (0.24)	ND (0.87)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.50)
Bromochloromethane	5	-	-	-	ND (1.9)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (1.0)
Bromodichloromethane	50*	ND (0.21)	ND (0.21)	ND (0.21)	ND (1.1)	ND (0.58)	ND (0.58)	1	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (1.0)
Bromoform	50*	ND (0.21)	ND (0.21)	ND (0.21)	ND (2.1)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63) [a]	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63)	ND (1.0)
Bromomethane	5	ND (0.22)	ND (0.22)	ND (0.22)	ND (6.9)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6) a	ND (1.6) a	ND (1.6)	ND (1.6) [b]	ND (1.6) a	ND (1.6)	ND (2.0)
2-Butanone (MEK)	50*	ND (2.4)	ND (2.4)	ND (2.4)	ND (24)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (10)
Carbon disulfide	60	ND (0.19)	ND (0.19)	ND (0.19)	ND (2.5)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (2.0)
Carbon tetrachloride	5	ND (0.22)	ND (0.22)	ND (0.22)	ND (1.7)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (1.0)
Chlorobenzene	5	ND (0.23)	ND (0.23)	ND (0.23)	ND (1.2)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (1.0)
Chloroethane	5	**75.5**	**57**	ND (0.26)	**11**	1	3	0.98 J	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	0.86 J	0.94 J	ND (0.73) a	2.7
Chloroform	7	ND (0.20)	ND (0.20)	ND (0.20)	3.8 J	0.81 J	1.3	3.9	**8.4**	ND (0.50)	1.8	2.3	2.7	3.8	1.8	1.4	ND (1.0)
Chloromethane	5	ND (0.21)	ND (0.21)	ND (0.21)	ND (2.7)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76) [b]	ND (0.76)	ND (0.76)	ND (1.0)
Cyclohexane	-	-	-	-	ND (3.2)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (5.0)
1,2-Dibromo-3-chloropropane	0.04	-	-	-	ND (3.4)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (0.53)	ND (0.53)	ND (0.53)	ND (2.0)
Dibromochloromethane	50*	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.82)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (1.0)
1,2-Dibromoethane	0.0006	-	-	-	ND (1.1)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (1.0)
1,2-Dichlorobenzene	3	-	-	-	ND (2.5)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (1.0)
1,3-Dichlorobenzene	3	-	-	-	ND (2.5)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (1.0)
1,4-Dichlorobenzene	3	-	-	-	ND (2.5)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (1.0)
Dichlorodifluoromethane	5	-	-	-	ND (9.3) [a]	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (0.56) [b]	ND (0.56)	ND (0.56)	ND (2.0)
1,1-Dichloroethane	5	**137**	**145**	**11.8**	**19.3**	**25.7**	**19.2**	**7.4**	**6.7**	**7.9**	**15.5**	**6.2**	2.6	3.7	**5.1**	4	**6.3**
1,2-Dichloroethane	0.6	**0.69 J**	**0.64 J**	**0.70 J**	**3.1 J**	**1.7**	**3.1**	**1.3**	**1.4**	**2.4**	**1.9**	**1**	**0.66 J**	**0.98 J**	**1.3**	**1.4**	**1.8**
1,1-Dichloroethene	5	**5.1**	4.1	3.5	**11.7**	5	**9.2**	**4.4**	**5.4**	**7.2**	**8**	**3.5**	2.6	4	4.8	4.3	**5.5**
cis-1,2-Dichloroethene	5	ND (0.19)	0.21 J	0.54 J	ND (2.5)	0.98 J	1.3	0.78 J	0.77 J	1.1	1.3	0.73 J	0.52 J	0.83 J	1	0.85 J	1
trans-1,2-Dichloroethene	5	ND (0.21)	ND (0.21)	ND (0.21)	ND (2.0)	ND (0.54)	0.86 J	ND (0.54)	0.59 J	0.66 J	0.78 J	ND (0.54)	ND (0.54)	ND (0.54)	0.66 J	ND (0.54)	0.61 J
1,2-Dichloroethene (total)	-	ND (0.19)	0.21 J	0.54 J	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloropropane	1	ND (0.48)	ND (0.48)	ND (0.48)	ND (1.2)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (1.0)
cis-1,3-Dichloropropene	0.4	ND (0.21)	ND (0.21)	ND (0.21)	ND (1.3)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (1.0)
trans-1,3-Dichloropropene	0.4	ND (0.19)	ND (0.19)	ND (0.19)	ND (1.1)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (1.0)
1,4-Dioxane	-	-	-	-	ND (260)	ND (69) a	ND (69) a	ND (69)	ND (69)	ND (69)	ND (69)	ND (69)	ND (69)	ND (19)	ND (19)	ND (19)	ND (130)
Ethylbenzene	5	ND (0.23)	ND (0.23)	ND (0.23)	ND (1.1)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (1.0)
Freon 113	5	-	-	-	ND (6.2)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9) a	ND (1.9)	ND (1.9)	ND (0.58)	ND (0.58)	ND (0.58)	ND (5.0)
2-Hexanone	50*	ND (1.1)	ND (1.1)	ND (1.1)	ND (16)	ND (2.0) a	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (5.0) a
Isopropylbenzene	5	-	-	-	ND (1.3)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (1.0)
Methyl Acetate	-	-	-	-	ND (15)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80) b	ND (0.80)	ND (5.0) a
Methylcyclohexane	-	-	-	-	ND (9.2)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60) a	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (5.0)
Methyl Tert Butyl Ether	10	ND (0.16)	ND (0.16)	ND (0.16)	ND (1.3)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (1.0)
4-Methyl-2-pentanone(MIBK)	-	ND (0.83)	ND (0.83)	ND (0.83)	ND (15)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (5.0) a
Methylene chloride	5	ND (0.70)	ND (0.70)	ND (0.70)	ND (5.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)
Styrene	5	ND (0.21)	ND (0.21)	ND (0.21)	ND (1.2)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.49)	ND (0.49)	ND (0.49)	ND (0.49)	ND (1.0)
1,1,2,2-Tetrachloroethane	5	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.84)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (1.0)
Tetrachloroethene	5	ND (0.28)	ND (0.28)	ND (0.28)	ND (2.5)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (1.0)
Toluene	5	2.6	ND (0.23)	ND (0.23)	ND (1.2)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (1.0)
1,2,3-Trichlorobenzene	5	-	-	-	ND (2.5)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)
1,2,4-Trichlorobenzene	5	-	-	-	ND (2.5)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (1.0)
1,1,1-Trichloroethane	5	**17.9**	**30.5**	1.4	**617**	**50.7**	**21.3**	4	2	2.9	**53.5**	1.9	0.73 J	1.2	1.3	1.2	1.2
1,1,2-Trichloroethane	1	ND (0.29)	ND (0.29)	ND (0.29)	ND (1.2)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (1.0)
Trichloroethene	5	ND (0.22)	ND (0.22)	1.1	2.0 J	1.7	2.1	1.1	1.4	1.8	1.7	0.92 J	0.78 J	1	1.1	1.2	1.2
Trichlorofluoromethane	5	-	-	-	ND (3.0)	ND (0.84)	ND (0.84) a	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)	ND (2.0)
Vinyl chloride	2	0.77 J	0.65 J	ND (0.21)	ND (3.1)	ND (0.79)	1.5	ND (0.79)	ND (0.79)	1	1	ND (0.79)	ND (0.79)	ND (0.79)	0.92 J	ND (0.79)	1.3
m,p-Xylene	5	-	-	-	ND (2.1)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (1.0)
o-Xylene	5	-	-	-	ND (1.1)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (1.0)
Xylene (total)	5	ND (0.24)	ND (0.24)	ND (0.24)	ND (1.1)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (1.0)

MS Volatiles (SW846 8260C) Client Sample ID:	NY TOGS Class GA GW Standards	E-1 NEW	E-1 NEW	E-1 NEW	E-1 NEW	E-1 NEW	E1-NEW	E1-NEW	E1-NEW	E-1 NEW	E-1 NEW	E-1 NEW
Lab Sample ID:		-	JB10868-6	JB34670-4	JC66265-2	JC74100-5	JC79790-4	JC85268-3	JC90279-3	JC94022-1	JD685-1	JD4855-1
Date Sampled:		6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020
Acetone	50*	-	ND (3.3)	ND (3.3)	ND (5.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)	ND (6.0)
Benzene	1	-	ND (0.24)	ND (0.24)	ND (0.17)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Bromochloromethane	5	-	-	-	ND (0.38)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)
Bromodichloromethane	50*	-	ND (0.21)	ND (0.21)	ND (0.22)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)	ND (0.58)
Bromoform	50*	-	ND (0.21)	ND (0.21)	ND (0.42)	ND (0.63)	ND (0.63)	ND (0.63)	ND (0.63) [a]	ND (0.63)	ND (0.63)	ND (0.63)
Bromomethane	5	-	ND (0.22)	ND (0.22)	ND (1.4)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6) a
2-Butanone (MEK)	50*	-	ND (2.4)	ND (2.4)	ND (4.8)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)	ND (6.9)
Carbon disulfide	60	-	ND (0.19)	ND (0.19)	ND (0.50)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)	ND (0.95)
Carbon tetrachloride	5	-	ND (0.22)	ND (0.22)	ND (0.34)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
Chlorobenzene	5	-	ND (0.23)	ND (0.23)	ND (0.24)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)
Chloroethane	5	-	ND (0.26)	**73.9**	**139**	**89.6**	**41.2**	**98.8**	**113**	**116**	**113**	**102**
Chloroform	7	-	ND (0.20)	ND (0.20)	ND (0.29)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Chloromethane	5	-	ND (0.21)	ND (0.21)	ND (0.53)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)
Cyclohexane	-	-	-	-	ND (0.63)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)
1,2-Dibromo-3-chloropropane	0.04	-	-	-	ND (0.69)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
Dibromochloromethane	50*	-	ND (0.14)	ND (0.14)	ND (0.16)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)	ND (0.56)
1,2-Dibromoethane	0.0006	-	-	-	ND (0.21)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)	ND (0.48)
1,2-Dichlorobenzene	3	-	-	-	ND (0.50)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
1,3-Dichlorobenzene	3	-	-	-	ND (0.50)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
1,4-Dichlorobenzene	3	-	-	-	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)
Dichlorodifluoromethane	5	-	-	-	ND (1.9) [a]	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
1,1-Dichloroethane	5	-	**18**	**154**	**54.3**	3.2	0.88 J	3.4	4	2.5	3.4	2.1
1,2-Dichloroethane	0.6	-	**1.7**	ND (0.26)	ND (0.20)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
1,1-Dichloroethene	5	-	4.5	5	3.3	1.3	ND (0.59)	0.97 J	1.3	1.3	1.6	1.4
cis-1,2-Dichloroethene	5	-	0.78 J	ND (0.19)	ND (0.50)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)
trans-1,2-Dichloroethene	5	-	0.33 J	ND (0.21)	ND (0.40)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
1,2-Dichloroethene (total)	-	-	1.1	ND (0.19)	-	-	-	-	-	-	-	-
1,2-Dichloropropane	1	-	ND (0.48)	ND (0.48)	ND (0.24)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)
cis-1,3-Dichloropropene	0.4	-	ND (0.21)	ND (0.21)	ND (0.25)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)	ND (0.47)
trans-1,3-Dichloropropene	0.4	-	ND (0.19)	ND (0.19)	ND (0.22)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
1,4-Dioxane	-	-	-	-	ND (52)	ND (69) a	ND (69) a	ND (69)	ND (69)	ND (69)	ND (69)	ND (69)
Ethylbenzene	5	-	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
Freon 113	5	-	-	-	ND (1.2)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
2-Hexanone	50*	-	ND (1.1)	ND (1.1)	ND (3.3)	ND (2.0) a	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Isopropylbenzene	5	-	-	-	ND (0.25)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)
Methyl Acetate	-	-	-	-	ND (3.1)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)
Methylcyclohexane	-	-	-	-	ND (1.8)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
Methyl Tert Butyl Ether	10	-	ND (0.16)	ND (0.16)	ND (0.25)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)	ND (0.51)
4-Methyl-2-pentanone(MIBK)	-	-	ND (0.83)	ND (0.83)	ND (3.0)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Methylene chloride	5	-	ND (0.70)	ND (0.70)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Styrene	5	-	ND (0.21)	ND (0.21)	ND (0.24)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)	ND (0.70)
1,1,2,2-Tetrachloroethane	5	-	ND (0.21)	ND (0.21)	ND (0.17)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)	ND (0.65)
Tetrachloroethene	5	-	ND (0.28)	ND (0.28)	ND (0.50)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)	ND (0.90)
Toluene	5	-	ND (0.23)	ND (0.23)	ND (0.25)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
1,2,3-Trichlorobenzene	5	-	-	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
1,2,4-Trichlorobenzene	5	-	-	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)	ND (0.50)	ND (0.50) a	ND (0.50)
1,1,1-Trichloroethane	5	-	2	**48.4**	ND (0.25)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)	ND (0.54)
1,1,2-Trichloroethane	1	-	ND (0.29)	ND (0.29)	ND (0.24)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Trichloroethene	5	-	1.7	ND (0.22)	ND (0.27)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)	ND (0.53)
Trichlorofluoromethane	5	-	-	-	ND (0.60)	ND (0.84)	ND (0.84) a	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)	ND (0.84)
Vinyl chloride	2	-	0.65 J	ND (0.21)	ND (0.62)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
m,p-Xylene	5	-	-	-	ND (0.43)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)
o-Xylene	5	-	-	-	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)
Xylene (total)	5	-	ND (0.24)	ND (0.24)	ND (0.22)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)	ND (0.59)

Notes
Concentrations in ug/L
Exceedances in TOGS highlighted in yellow and **bolded**
EW-1 NEW removed from the monitoring well network (5/6/2020)
ND = Not detected (below detection limit)
J = Estimated concentration
-- = Not Sampled Dry Well
* = Guidance Value
P = Product in Well, Not Sampled

Table 1: AFFCO Cummulative Analytical Results by Well - Metals
Groundwater Monitoring Report
American Felt Filter Company

Metals Analysis	NY TOGS Class GA GW Standards																															
Client Sample ID:		EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0
Lab Sample ID:		JB9172	JB10868	JB34670-1	JC56265-5	JC74100-1	JC79790-5	JC85268-6	JC90279-6	JC90279-6	JC94022-3	JD685-4	JD4855-3	-	-	-	-	JB9172-1	JB10868-1	JB34670-3	JC66265-4	JC74100-3	JC79790-1	JC85268-1	JC90279-1	JC94022-5	JD685-2	JD4855-5	JD21587-4	JD26722-2	JD40427-2	JD60363-2
Date Sampled:		6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	8/19/2022	6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	8/19/2022
Iron	300	-	-	**934000**	-	**5420**	-	**1110**	-	-	**3190**	**4390**	-	-	-	-	-	**3480**	-	**546**	**1980**	**604**	**1510**	**596**	**492**	**562**	**533**	**1310**	**1090**	**396**	**1540**	**6720**

Notes
Concentrations in ug/L
Exceedances in TOGS highlighted in yellow and **bolded**
EW-1 NEW removed from the monitoring well network (5/6/2020)
ND = Not detected (below detection limit)
J = Estimated concentration
- = Not Sampled Dry Well
* = Guidance Value
Iron is not a COCs
U - Below detection limit
B - Analyte was found in the associated blank
NA = Not analyzed

Table 1: AFFCO Cummulative Analytical Results by Well - Metals
Groundwater Monitoring Report
American Felt Filter Company

Metals Analysis	NY TOGS Class GA GW Standards																																							
Client Sample ID:		MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	S-8	S-8	S-8	S-8	S-8	SB	S-8	S-8	S-8	S-8	S-8	S-8	S-8	S-8	E-1 NEW	E-1 NEW	E-1 NEW	E-1 NEW	E-1 NEW	E1-NEW	E1-NEW	E1-NEW	E-1 NEW	E-1 NEW	E1-NEW	E-1NEW
Lab Sample ID:		JB9172-5	JB10868-2	JB34670-5	JC66265-1	JC74100-2	JC79790-6	JC85268-7	JC90279-4	JC94022-4	JD685-5	JD4855-4	JD21587-1	JD26722-1	JD40427-1	JD50363-3	JB9172-6	JB10868-3	JB34670-2	JC66265-3	JC74100-4	JC79790-3	JC85268-2	JC90279-2	JC94022-2	JD685-3	JD4855-2	JD21587-3	JD26722-3	JD40427-3	JD50363-1	-	JB10868-6	JB34670-4	JC66265-2	JC74100-5	JC79790-4	JC85268-3	JC90279-3	JC94022-1	JD685-1	JD4855-1
Date Sampled:		6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	8/19/2022	6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	8/19/2022	6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020
Iron	300	-	-	**805**	287	**11600**	**500**	**129**	**167**	**3380**	**102**	**888**	**<100**	**775**	**479**	**12000**	**3290**	-	**5790**	**2230**	**1100**	**1020**	**664**	**1660**	**1840**	**1250**	**7030**	**473**	**670**	**709**	**3200**	-	-	**804**	192	222	131	<100	<100	169	196	<100

Notes
Concentrations in ug/L
Exceedances in TOGS highlighted in yellow and **bolded**
EW-1 NEW removed from the monitoring well network (5/6/2020)
ND = Not detected (below detection limit)
J = Estimated concentration
- = Not Sampled Dry Well
* = Guidance Value
Iron is not a COCs
U - Below detection limit
B - Analyte was found in the associated blank
NA = Not analyzed

Table 1: AFFCO Cummulative Analytical Results by Well - General Chemistry
Groundwater Monitoring Report
American Felt Filter Company

General Chemistry Client Sample ID: Lab Sample ID: Date Sampled:	NY TOGS Class GA GW Standards	EW-1X JB9172 6/15/2012	EW-1X JB10868 7/10/2012	EW-1X JB34670-1 4/17/2013	EW-1X JC66265-5 5/15/2018	EW-1X JC74100-1 9/18/2018	EW-1X JC79790-5 12/13/2018	EW-1X JC85268-6 3/26/2019	EW-1X JC90279-6 6/19/2019	EW-1X JC90279-6 6/19/2019	EW-1X JC94022-3 8/27/2019	EW-1X JD685-4 12/19/2019	EW-1X JD4855-3 3/17/2020	EW-1X - 3/10/2021	EW-1X - 6/15/2021	EW-1X - 2/28/2022	EW-1X - 8/19/2022	EW-0 JB9172-1 6/15/2012	EW-0 JB10868-1 7/10/2012	EW-0 JB34670-3 4/17/2013	EW-0 JC66265-4 5/15/2018	EW-0 JC74100-3 9/18/2018	EW-0 JC79790-1 12/13/2018	EW-0 JC85268-1 3/26/2019	EW-0 JC90279-1 6/19/2019	EW-0 JC94022-5 8/27/2019	EW-0 JD685-2 12/19/2019	EW-0 JD4855-5 3/17/2020	EW-0 JD21587-4 3/10/2021	EW-0 JD26722-2 6/15/2021	EW-0 JD40427-2 2/28/2022	EW-0 JD50363-2 8/19/2022
Alkalinity, Carbonate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.0	-	-	47.9 [a]	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3	-	-	-	89.2	-	305 b	-	244 b	-	-	-	109 b	262 b	-	-	-	-	218	-	124	47.9 [a]	121 b	179 c	151 b	55.0 b	-	162 b	191 b	181 b	144 c	193 c	187 c
Chloride	250	-	-	52.6	-	54.5	-	54.8	-	-	-	78	75.3	-	-	-	-	162	-	114	16	49	81.7	82.8	12.9	24.9	102	178	61	84.3	131	193
Iron, Ferrous	-	-	-	-	-	1.6 c	-	<0.20 c	-	-	-	<0.20 c	<0.20 c	-	-	-	-	-	-	-	<0.20 [a]	<0.20 c	<0.20 d	<0.20 c	<0.20 c	<0.20 a	<0.20 c	<0.20 c	<0.20 c	<0.20 d	<0.20 d	<0.20 d
Sulfate	10	-	-	**29.2**	-	**78.2**	-	**31.4**	-	-	-	**77.9**	**78.7**	-	-	-	-	**13.7**	-	**93.8**	4.8	**13.5**	**16.9**	**20.9**	5.1	**17**	**20**	7	**42.5**	**17.2**	**16.5**	8.1
Sulfide	10	-	-	-	<2.0	<2.0	-	<2.0	-	-	-	<2.0	-	-	-	-	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Notes
Concentrations in mg/L
Exceedances in TOGS highlighted in yellow and **bolded**
EW-1 NEW removed from the monitoring well network (5/6/2020)
- = Not Sampled Dry Well
P = Product in Well, Not Sampled
b Sample was titrated to a final pH of 4.5.
c Field analysis required. Received out of hold time and analyzed by request.

Table 1: AFFCO Cummulative Analytical Results by Well - General Chemistry
Groundwater Monitoring Report
American Felt Filter Company

General Chemistry Client Sample ID: Lab Sample ID: Date Sampled	NY TOGS Class GA GW Standards	MW-1 JB9172-5 6/15/2012	MW-1 JB10868-2 7/10/2012	MW-1 JB34670-5 4/17/2013	MW-1 JC66265-1 5/15/2018	MW-1 JC74100-2 9/18/2018	MW-1 JC79790-6 12/13/2018	MW-1 JC85268-7 3/26/2019	MW-1 JC90279-4 6/19/2019	MW-1 JC94022-4 8/27/2019	MW-1 JD0685-5 12/19/2019	MW-1 JD4855-4 3/17/2020	MW-1 JD21587-1 3/10/2021	MW-1 JD26722-1 6/15/2021	MW-1 JD40427-1 2/28/2022	MW-1 JD50363-3 8/19/2022	S-8 JB9172-6 6/15/2012	S-8 JB10868-3 7/10/2012	S-8 JB34670-2 4/17/2013	S-8 JC66265-3 5/15/2018	S-8 JC74100-4 9/18/2018	S8 JC79790-3 12/13/2018	S-8 JC85268-2 3/26/2019	S-8 JC90279-2 6/19/2019	S-8 JC94022-2 8/27/2019	S-8 JD0685-3 12/19/2019	S-8 JD4855-2 3/17/2020	S-8 JD21587-3 3/10/2021	S-8 JD26722-3 6/15/2021	S-8 JD40427-3 2/28/2022	S-8 JD50363-1 8/19/2022	E-1 NEW - 6/15/2012	E-1 NEW JB10868-6 7/10/2012	E-1 NEW JB34670-4 4/17/2013	E-1 NEW JC66265-2 5/15/2018	E-1 NEW JC74100-5 9/18/2018	E-1 NEW JC74100-5 9/18/2018	E1-NEW JC85268-3 3/26/2019	E1-NEW JC90279-3 6/19/2019	E-1 NEW JC94022-1 8/27/2019	E-1 NEW JD0685-1 12/19/2019	E-1NEW JD4855-1 3/17/2020
Alkalinity, Carbonate	-	-	-	-	82.1 [a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95.9 [a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3	-	-	-	274	82.1 [a]	100 b	163 c	146 b	97.0 b	-	126 b	122 b	102 [a]	114 c	106 c	192 c	125	-	-	111	95.9 [a]	71.7 b	106 c	123 b	85.0 b	-	111 b	92.0 b	88.5 [a]	102 c	105 c	432 c	-	-	260	248 [a]	185 b	188 c	220 b	241 b	-	202 b	200 b
Chloride	250	-	-	57.1	23.1	36	77.3	79.9	43.2	30.4	72.9	131	88.4	82.3	83.9	118	47.7	-	43.8	102	50.8	93.4	86.6	46.5	92.1	83.1	90.4	87.4	88.5	95.1	97.3	-	-	37.1	35	31.5	26.1	36.5	33.9	34.5	33.8	34.1
Iron, Ferrous	-	-	-	-	<0.20 [c]	<0.20 c	<0.20 d	<0.20 c	<0.20 c	<0.20 a	<0.20 c	<0.20 c	<0.20 [c]	<0.20 d	<0.20 d	<0.20 d	-	-	-	<0.20 [c]	<0.20 c	0.21 d	<0.20 c	<0.20 c	<0.20 a	<0.20 c	<0.20 c	<0.20 c	<0.20 [c]	<0.20 d	<0.20 d	<0.20 d	-	-	-	<0.20 [c]	<0.20 c	<0.20 c	<0.20 c	<0.20 a	<0.20 c	<0.20 c
Sulfate	10	-	-	**104**	**12.7**	**11.8**	**18.8**	**23.3**	7.9	4.3	**21.3**	**35.8**	**30.2**	**16.1**	14.4	2	<10	-	**17.2**	**15.7**	**10.1**	**13.5**	**21.4**	**13.3**	**12.1**	**17.5**	**16.1**	**24**	**17.7**	**14.6**	16	-	-	<10	3.5	<2.0	2.2	4	2.4	2.1	4.7	<2.0
Sulfide	10	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 [e]	<2.0	<2.0	<2.0	<2.0	<2.0	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Notes
Concentrations in mg/L
Exceedances in TOGS highlighted in yellow and **bolded**
EW-1 NEW removed from the monitoring well network (5/6/2020)
-- = Not Sampled Dry Well
P = Product in Well, Not Sampled
b Sample was titrated to a final pH of 4.5.
c Field analysis required. Received out of hold time and analyzed by rec

Table 1: AFFCO Cummulative Analytical Results by Well - General Chemistry Volatiles
Groundwater Monitoring Report
American Felt Filter Company

General Chemistry Volatiles (RSK-175)																														
Client Sample ID:		EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-1X	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0	EW-0
Lab Sample ID:	NY TOGS Class	JB9172	JB10868	JB34670-1	JC66265-5	JC74100-1	JC79790-5	JC85268-6	JC90279-6	JC94022-3	JD685-4	JD4855-3	3/10/2021	JD26722-4	JD40427-4	JD50363-4	JB9172-1	JB10868-1	JB34670-3	JC66265-4	JC74100-3	JC79790-1	JC85268-1	JC90279-1	JC94022-5	JD685-2	JD4855-5	JD21587-4	JD26722-2	JD40427-2	JD50363-2
Date Sampled:	GA GW Standards	6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020		6/15/2021	2/28/2022	8/19/2022	6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	8/19/2022
Methane	-	-	-	-	100	-	932	6	-	0.49	15.8	41.6	--	-	3900	2290	-	-	-	0.36	-	205	4.8	0.14	3.6	10.3	19	28.6	0.18	68.8	395
Ethane	-	-	-	-	0.54	-	3	ND (0.099)	-	ND (0.099)	ND (0.099)	0.31	--	-	1.6	ND (12)	-	-	-	ND (0.047)	-	8.1	0.51	ND (0.099)	1	0.63	0.57	1.4	ND (0.14)	3.23	8.19
Ethene	-	-	-	-	0.55	-	1.7	ND (0.072)	-	ND (0.072)	ND (0.072)	ND (0.16)	--	-	ND (0.16)	ND (16)	-	-	-	ND (0.051)	-	4.1	ND (0.072)	ND (0.072)	0.37	1.2	2.2	0.9	ND (0.16)	4.61	10.1
Carbon Dioxide	-	-	-	-	2970	4320	-	3390	-	5830	3780	3460	--	-	4430	7230	-	-	-	81	2220	1520	1660	1070	969	1180	1320	1180	1340	2860	3980

Notes
Concentrations measured in ug/L
Exceedances in TOGS highlighted in yellow and **bolded**
EW-1 NEW removed from the monitoring well network (5/6/2020)
ND = not detected (below detection limit)
-- = Dry Well
NS = Not Sampled
NA = Not Analyzed
P = Product in Well, Not Sampled

Table 1: AFFCO Cummulative Analytical Results by Well - General Chemistry Volatiles
Groundwater Monitoring Report
American Felt Filter Company

General Chemistry Volatiles (RSK-175) Client Sample ID:	NY TOGS Class GA GW Standards	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
Lab Sample ID:		JB9172-5	JB10868-2	JB34670-5	JC66265-1	JC74100-2	JC79790-6	JC85268-7	JC90279-4	JC94022-4	JD685-5	JD4855-4	JD21587-1	JD26722-1	JD40427-1	JD50363-3
Date Sampled:		6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	8/19/2022
Methane	-	-	-	-	13.9	-	389	4.9	22.2	1	7.3	10.6	20.8	61	106	3430
Ethane	-	-	-	-	0.27	-	3	ND (0.099)	0.26	ND (0.099)	ND (0.099)	0.26	0	0.63	1.4	15.3
Ethene	-	-	-	-	ND (0.051)	-	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.16)	ND (0.31)	ND (0.16)	ND (0.16)	ND (0.31)
Carbon Dioxide	-	-	-	-	2500	9720	6460	2050	1830	5920	2710	4590	2330	3690	3440	7340

General Chemistry Volatiles (RSK-175) Client Sample ID:	S-8	S-8	S-8	S-8	S-8	S8	S-8	S-8	S-8	S-8	S-8	S-8	S-8	S-8	S-8
Lab Sample ID:	JB9172-6	JB10868-3	JB34670-2	JC66265-3	JC74100-4	JC79790-3	JC85268-2	JC90279-2	JC94022-2	JD685-3	JD4855-2	JD21587-3	JD26722-3	JD40427-3	JD50363-1
Date Sampled:	6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020	3/10/2021	6/15/2021	2/28/2022	8/19/2022
Methane	-	-	-	12.9	-	69.1	1.6	4.3	0.39	43.8	27.4	19.7	38.3	57.1	63.9
Ethane	-	-	-	ND (0.047)	-	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.099)	ND (0.14)	ND (0.23)	ND (0.14)	ND (0.14)	ND (0.23)
Ethene	-	-	-	ND (0.051)	-	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.16)	ND (0.31)	ND (0.16)	ND (0.16)	ND (0.31)
Carbon Dioxide	-	-	-	3090	2110	3760	4650	3100	3080	2650	2670	1790	2260	2140	3870

General Chemistry Volatiles (RSK-175) Client Sample ID:	E-1 NEW	E-1 NEW	E-1 NEW	E-1 NEW	E-1 NEW	E1-NEW	E1-NEW	E1-NEW	E-1 NEW	E-1 NEW	E-1NEW
Lab Sample ID:	JB9172	JB10868-6	JB34670-4	JC66265-2	JC74100-5	JC79790-4	JC85268-3	JC90279-3	JC94022-1	JD685-1	JD4855-1
Date Sampled:	6/15/2012	7/10/2012	4/17/2013	5/15/2018	9/18/2018	12/13/2018	3/26/2019	6/19/2019	8/27/2019	12/19/2019	3/17/2020
Methane	-	-	-	3980	-	1020	2350	3860	66.3	2480	3980
Ethane	-	-	-	0.47	-	ND (0.099)	ND (0.099)	0.51	ND (0.099)	0.32	0.3
Ethene	-	-	-	ND (0.051)	-	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.072)	ND (0.16)
Carbon Dioxide	-	-	-	80	240	566	240	296	126	173	130

Notes
Concentrations measured in ug/L
Exceedances in TOGS highlighted in yellow and **bolded**
EW-1 NEW removed from the monitoring well network (5/6/2020)
ND = not detected (below detection limit)
-- = Dry Well
NS = Not Sampled
NA = Not Analyzed
P = Product in Well, Not Sampled

Appendix A – Data Usability Summary Report

AFFCO
New Windsor, New York

DATA USABILITY SUMMARY REPORT (DUSR)

Prepared for

American Felt and Filter Company
361 Walsh Avenue
New Windsor, New York, N.Y. 12553

Submitted to

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York, 12233-7016

by

Fleming Lee Shue

158 West 29th Street
New York, New York, 10001

November 2022

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ATTACHMENTS

INTRODUCTION

A Data Usability Summary Report (DUSR) provides a thorough evaluation of analytical data with the primary objective to determine whether or not the data, as presented, meets the site/project specific criteria for data quality and data use.

This DUSR was conducted based on standard practice regulatory guidance documents, including New York State Department of Conservation (NYSDEC), June 1999, for technical review of analytical data in lieu of a full third-party data validation and the Analytical Service Protocol (ASP) for technical review of analytical data.

1.1 Project Information

Project Name	American Felt and Filter Co.
Laboratory	SGS – Accutest Laboratories, Dayton, NJ
SDGs	JD50363
Sample Summary	Four (4) field groundwater samples collected. One (1) Field duplicate, one trip blank and one field blank included. Collected in one day 8/19/22.
Analytical Methods	Target Compound List (TCL) MS Volatiles by SW846 8260C; GC Volatiles by Method RSK-175 General Chemistry by EPA 300/SW846; 353.2/LACHAT Metals (Fe) by EPA Method 6010D.

2.0 DUSR QUESTIONS

1. *Is the data package complete as defined under the requirements for the most current NYSDEC ASP Category B or USEPA CLP deliverables?*
   Yes.

2. *Have all holding times been met?*
   Yes.

3. *Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?*
   Yes. Some QC exceptions resulted in qualification of data as noted in Table 2 and Section 5. All data are considered usable.

4. *Have all of the data been generated using established and agreed upon analytical protocols?*
   Yes.

5. *Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?*
   Yes. The raw data was reviewed to verify that detected results met retention time and mass spectral criteria.

6. *Have the correct data qualifiers been used and are they consistent with the most current NYSDEC ASP?*

   Yes. The laboratory used the correct data qualifiers in reporting results. Data validation resulted in some updated qualifiers as shown in Table 2 and discussed in Sections 5.

7. *Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheets from the data package been attached to the DUSR?*

   Yes. QC exceedances are specified in the Method Specific Data Validation section (Sections 5). Corresponding samples were qualified and all data are considered usable. QC Summary sheets have been attached.

3.0 SAMPLE & ANALYSES SUMMARY

This section summarizes the Sample Delivery Groups (SDGs), sample descriptions and analytical parameters.

3.1 Sample Delivery Group Information

Table 1. Sample Descriptions and Validated Analyses

Sample ID	Lab ID	Sample Type	Collection Date	Matrix	Analyses
JD50363					
S-8	JD50363-1	Field	8/19/2022	GW	TCL VOCs by Method 8260C
EW-0	JD50363-2	Field	8/19/2022	GW	TCL VOCs by Method 8260C
MW-1	JD50363-3	Field	8/19/2022	GW	TCL VOCs by Method 8260C
EW-1X	JD50363-4	Field	8/19/2022	GW	TCL VOCs by Method 8260C
EW-0 DUP	JD50363-5	Field Duplicate	8/19/2022	GW	TCL VOCs by Method 8260C
FIELD BLANK	JD50363-6	Field Blank	8/19/2022	AQ	TCL VOCs by Method 8260C
TRIP BLANK	JD50363-7	Trip Blank	8/19/2022	AQ	TCL VOCs by Method 8260C

3.2 Analytical Methods

Trace Volatile Organic Compounds by and analyzed by EPA Method 8260C Gas Chromatography/Mass Spectrometry (GC/MS). RSK-175 volatile organic compounds, metals (Fe), and general chemistry parameters were also analyzed, but not validated as a part of this review.

4.0 DATA VALIDATION SUMMARY

The following is a summary of data validation actions for this project. Provided below are the qualifier definitions.

Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Table 2 -Summary of Data Validation Actions

Sample ID	Analyte	Qualifier	Notes
EW-0 DUP	Chloroethane 1,1-Dichloroethane	J	Headspace present within sample vial during re-analysis. Only two compounds reported.
MW-1 EW-1X	Acetone	J	CCV %D outside of limits (low). Compound detected.

S-8 EW-0 EW-0 DUP FIELD BLANK TRIP BLANK	Acetone	J	CCV %D outside of limits (low). Compound non-detect.
S-8	Trans-1,2-Dichloroethene	J	Reported result less than RL.
EW-0	Toluene	J	Reported result less than RL.
MW-1	Cis-1,2-Dichloroethene Trans-1,2-Dichloroethene Acetone Chloroform Carbon disulfide Trichloroethene	J	Reported result less than RL.
EW-1X	1,2-Dichloroethane 1,4-Dioxane cis-1,2-Dichloroethene Acetone	J	Reported result less than RL.
EW-0 DUP	Toluene	J	Reported result less than RL.

Data validation details for each method are provided in the following sections.

5.0 DATA VALIDATION DETAIL – TRACE VOLATILE ORGANIC COMPOUNDS

5.1 Data Package Completeness
Data package is complete for the SDG.

5.2 Preservation
All JD50363 associated samples were properly preserved by acidification to a pH <2 and cooled and held at 4ºC (+/- 2 ºC). Note: Within analytical batch V2A9549, a reanalysis on two samples for chloroethane and 1,1-dichloroethane, client sample EW-0 DUP was analyzed from a sample with headspace within the vial. As such, all detected compounds from this sample are qualified J and non-detect qualified UJ.

5.3 Hold Times
As mentioned above, all samples (preserved) were analyzed within recommended method holding time. Improperly preserved samples were analyzed within 7 days.

5.4 Instrument Performance Check
In total, two (2) separate instruments were used in this project (GCMS2A and GCMS3D) Ion abundance criteria met in all instruments according to Table 1 of ASP Exhibit E.

5.5 Initial Calibration (ICALs)
Initial calibration demonstrates that the instrument is capable of acceptable performance in the beginning of the analytical run and of producing linear calibration curve and provides mean Relative Response Factors (RRFs) suitable for quantitation.

Instrument GCMS3D
Initial calibration check (ICC) for this instrument associated with Run ID: V3D7582

Initial ICC was conducted 8/3/22. RRFs were acceptable for all compounds with the exception of n-butyl alcohol (0.009).

RSD%s were within acceptable bounds for all analytes (i.e., below maximum ASP Exhibit E Table 2 values). Three Initial Calibration Verifications (ICVs) were conducted and Percent Deviation was found acceptable for all compounds with the exception on non-reported compounds.

Instrument GCMS2A
Initial calibration check (ICC) for this instrument associated with Run ID: V2A9511

Initial ICC was conducted 7/31/22 RRFs were acceptable for all compounds with the exception of vinyl bromide (not reported).

RSD%s were within acceptable bounds for all analytes (i.e., below maximum ASP Exhibit E Table 2 values). Three Initial Calibration Verifications (ICVs) were conducted and Percent Deviation was found acceptable for all compounds.

5.6 Continuing Calibration Verification (CCV)

Instrument GCMS2A

Analytical Batch: V2A9549 (EW-0; EW-0 DUP) RE-RUN

Mean RRF was acceptable for all compounds. %D was within acceptable laboratory limits for all compounds with the exception of non-reported compounds. This analytical batch was a diluted rerun analyzed for chloroethane and 1,1-dichlroethane only. No qualifiers are assigned.

Instrument GCMS3D

Analytical Batch: V3D7613 (MW-1, FIELD BLANK, TRIP BLANK, EW-0, EW-1S, EW-0 DUP, S-8)

Mean RRF was acceptable for all compounds. %D was within acceptable laboratory limits for all compounds with the exception of acetone (20.8%).

Acetone was biased low in this analytical batch. As such, all non-detect results are qualified UJ and all detected results are qualified J. All remaining compounds are not reported and therefore no qualifiers are assigned.

5.7 Blanks

Method Blanks

A method blank analysis was performed in each analytical batch for each instrument (2 total batches). Results were non-detect for all compounds in each method blank with the exception of the following:

V3D7613 MB | carbon disulfide 0.47 ug/L. Compound is reported above the MDL, but below the RL. All project samples are non-detect and don't require qualification with the exception of MW-1 (0.74 ug/L). Both Method Blank and MW-1 reported concentration is less than the CRQL, as such, per guidance, the project sample is reported to the CRQL with a U.

Field Blank

FIELD BLANK was submitted as a field blank sample. All samples were non-detect for all compounds.

Trip Blank

One (1) trip blank sample was submitted with this SDG. Results were non-detect for all compounds.

5.8 Analysis Sequence
Samples were analyzed according to standard sequence.

5.9 Internal Standards
All internal standard area counts are within acceptable limits. All required VOC internal standards used. Includes SMCs tert-butyl alcohol-D9, pentafluorobenzene, 1,4-difluorobenzene, chlorobenzene-D5, 1,4-dichlorobenzene-d4. Some dilution required for samples with high concentrations of target compounds.

5.10 Laboratory Control Sample (LCS)
A LCS sample was analyzed as a part of each analytical batch. There are no required limits for NYSDEC ASP 2005 LCS samples so Lab limits are considered the applicable threshold.

Analytical Batch: V3D7613-BS
All analytes were detected within acceptable ranges within the LCS.

Analytical Batch: V2A9549-BS
All analytes were detected within acceptable ranges within the LCS. Analytical batch was a re-run, and only reported compounds were chloroethane and 1,1-dichloroethane.

5.11 Duplicates

Field Duplicates
Client samples EW-0 DUP served as a field duplicate for parent sample EW-0. All RPD were within acceptable limits (less than 30%) for all compounds. RPDs for detected results are summarized in the tables below.

Compound	Units	EW-0	EW-0 DUP	Relative Percent Difference
Chloroethane	ug/l	5250	5400	2.82%
1,1-Dichloroethane	ug/l	5680	5930	4.31%
1,2-Dichloroethane	ug/l	46.2	46.3	0.22%
1,1-Dichloroethene	ug/l	90.9	83.8	8.13%
Toluene	ug/l	11.9 J	11.7 J	1.69%
1,1,1-Trichloroethane	ug/l	3200	3120	2.53%
Vinyl chloride	ug/l	64.5	62.1	3.79%

Lab Duplicates
All lab duplicates were non-project samples.

5.12 Matrix Spike and Matrix Spike Duplicate
All MS and MSD samples were non-project samples and no assessment of matrix interference could be made.

5.13 Surrogates & System Monitoring Compounds (SMCs)
All ASP required surrogate compounds were used including tolunene-d8, 4-bromofluorobenzene, and 1,2-dichloroethane-d4. All were recovered within acceptable limits.

5.14 Project QA/QC (Field Duplicates)
Per Project QA/QC one field duplicate per 20 samples was submitted as a part of this event. Duplicate Sample (EW-0 DUP) was within acceptable limits except where noted in Section 5.11. Per Project QA/QC one field blank and at least one Trip blank were submitted per 20 samples. Field Blank (FIELD BLANK) were non-detect for all compounds except where noted in Section 5.7. Trip blanks were non-detect for all compounds. Project specific matrix spike collection was not specified in Project QA/QC. As such, no project samples were utilized as Matrix Spikes and no determination of Matrix interference could be made. All data are considered usable.

5.15 Detection Limits
Results reported above the MDL, but below the Reporting Limit (RL) are qualified J for all samples.

Attachment A

Relevant QC Summary Sheets

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D7613-MB	3D180786.D	1	08/24/22	NW	n/a	n/a	V3D7613

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-1, JD50363-2, JD50363-3, JD50363-4, JD50363-5, JD50363-6, JD50363-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	0.47	2.0	0.46	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	

Method Blank Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D7613-MB	3D180786.D	1	08/24/22	NW	n/a	n/a	V3D7613

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-1, JD50363-2, JD50363-3, JD50363-4, JD50363-5, JD50363-6, JD50363-7

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	80-120%
17060-07-0	1,2-Dichloroethane-D4	118%	80-120%
2037-26-5	Toluene-D8	109%	80-120%
460-00-4	4-Bromofluorobenzene	104%	82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A9549-MB	2A219736.D	1	08/30/22	NW	n/a	n/a	V2A9549

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-2, JD50363-5

CAS No.	Compound	Result	RL	MDL	Units	Q
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	93%	80-120%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	98%	82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D7613-BS	3D180784.D	1	08/24/22	NW	n/a	n/a	V3D7613

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-1, JD50363-2, JD50363-3, JD50363-4, JD50363-5, JD50363-6, JD50363-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	300	150	27-175
71-43-2	Benzene	50	49.5	99	80-115
74-97-5	Bromochloromethane	50	46.6	93	83-122
75-27-4	Bromodichloromethane	50	50.5	101	82-119
75-25-2	Bromoform	50	46.6	93	77-135
74-83-9	Bromomethane	50	64.8	130	40-162
78-93-3	2-Butanone (MEK)	200	252	126	61-150
75-15-0	Carbon disulfide	50	46.5	93	64-130
56-23-5	Carbon tetrachloride	50	45.9	92	75-127
108-90-7	Chlorobenzene	50	48.9	98	80-115
75-00-3	Chloroethane	50	54.7	109	56-144
67-66-3	Chloroform	50	47.2	94	75-116
74-87-3	Chloromethane	50	60.4	121	41-153
110-82-7	Cyclohexane	50	46.6	93	66-129
96-12-8	1,2-Dibromo-3-chloropropane	50	52.2	104	69-134
124-48-1	Dibromochloromethane	50	47.4	95	81-123
106-93-4	1,2-Dibromoethane	50	52.2	104	67-138
95-50-1	1,2-Dichlorobenzene	50	50.6	101	81-117
541-73-1	1,3-Dichlorobenzene	50	51.7	103	81-115
106-46-7	1,4-Dichlorobenzene	50	50.1	100	80-114
75-71-8	Dichlorodifluoromethane	50	49.4	99	43-152
75-34-3	1,1-Dichloroethane	50	52.6	105	75-125
107-06-2	1,2-Dichloroethane	50	51.5	103	73-117
75-35-4	1,1-Dichloroethene	50	48.5	97	70-124
156-59-2	cis-1,2-Dichloroethene	50	47.5	95	80-120
156-60-5	trans-1,2-Dichloroethene	50	48.0	96	77-121
78-87-5	1,2-Dichloropropane	50	56.9	114	79-121
10061-01-5	cis-1,3-Dichloropropene	50	54.0	108	83-123
10061-02-6	trans-1,3-Dichloropropene	50	57.5	115	83-122
123-91-1	1,4-Dioxane	1250	1740	139	64-150
100-41-4	Ethylbenzene	50	49.4	99	78-116
76-13-1	Freon 113	50	45.5	91	68-134
591-78-6	2-Hexanone	200	254	127	66-136
98-82-8	Isopropylbenzene	50	49.4	99	78-121
79-20-9	Methyl Acetate	50	63.6	127	60-143
108-87-2	Methylcyclohexane	50	49.0	98	71-123

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D7613-BS	3D180784.D	1	08/24/22	NW	n/a	n/a	V3D7613

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-1, JD50363-2, JD50363-3, JD50363-4, JD50363-5, JD50363-6, JD50363-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1634-04-4	Methyl Tert Butyl Ether	50	53.3	107	76-123
108-10-1	4-Methyl-2-pentanone(MIBK)	200	243	122	73-134
75-09-2	Methylene chloride	50	47.7	95	73-123
100-42-5	Styrene	50	51.2	102	81-125
79-34-5	1,1,2,2-Tetrachloroethane	50	59.0	118	73-126
127-18-4	Tetrachloroethene	50	42.4	85	73-119
108-88-3	Toluene	50	50.3	101	79-116
87-61-6	1,2,3-Trichlorobenzene	50	49.7	99	63-137
120-82-1	1,2,4-Trichlorobenzene	50	51.9	104	68-135
71-55-6	1,1,1-Trichloroethane	50	47.2	94	76-124
79-00-5	1,1,2-Trichloroethane	50	53.8	108	83-117
79-01-6	Trichloroethene	50	46.9	94	80-118
75-69-4	Trichlorofluoromethane	50	46.3	93	67-134
75-01-4	Vinyl chloride	50	56.0	112	52-146
	m,p-Xylene	100	98.0	98	79-119
95-47-6	o-Xylene	50	49.2	98	81-119
1330-20-7	Xylene (total)	150	147	98	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	80-120%
17060-07-0	1,2-Dichloroethane-D4	112%	80-120%
2037-26-5	Toluene-D8	103%	80-120%
460-00-4	4-Bromofluorobenzene	107%	82-114%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A9549-BS	2A219734.D	1	08/30/22	NW	n/a	n/a	V2A9549

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-2, JD50363-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-00-3	Chloroethane	50	46.7	93	56-144
75-34-3	1,1-Dichloroethane	50	46.3	93	75-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	80-120%
17060-07-0	1,2-Dichloroethane-D4	91%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	97%	82-114%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD50818-3MS	2A219748.D	1	08/30/22	NW	n/a	n/a	V2A9549
JD50818-3	2A219739.D	1	08/30/22	NW	n/a	n/a	V2A9549

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-2, JD50363-5

CAS No.	Compound	JD50818-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
75-00-3	Chloroethane	ND		50	54.4	109	48-152
75-34-3	1,1-Dichloroethane	2.5		50	55.4	106	68-129

CAS No.	Surrogate Recoveries	MS	JD50818-3	Limits
1868-53-7	Dibromofluoromethane	102%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	91%	93%	80-120%
2037-26-5	Toluene-D8	97%	97%	80-120%
460-00-4	4-Bromofluorobenzene	97%	99%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD50176-22MS	3D180789.D	1	08/25/22	NW	n/a	n/a	V3D7613
JD50176-22MSD	3D180790.D	1	08/25/22	NW	n/a	n/a	V3D7613
JD50176-22 [a]	3D180787.D	1	08/24/22	NW	n/a	n/a	V3D7613

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-1, JD50363-2, JD50363-3, JD50363-4, JD50363-5, JD50363-6, JD50363-7

CAS No.	Compound	JD50176-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		200	254	127	200	244	122	4	22-134/19
71-43-2	Benzene	ND		50	53.8	108	50	52.8	106	2	49-137/12
74-97-5	Bromochloromethane	ND		50	48.2	96	50	47.7	95	1	78-122/12
75-27-4	Bromodichloromethane	ND		50	54.9	110	50	54.3	109	1	76-121/12
75-25-2	Bromoform	ND		50	49.3	99	50	48.9	98	1	70-133/13
74-83-9	Bromomethane	ND		50	59.6	119	50	68.0	136	13	27-164/38
78-93-3	2-Butanone (MEK)	ND		200	242	121	200	230	115	5	52-137/17
75-15-0	Carbon disulfide	ND		50	46.3	93	50	45.1	90	3	54-136/16
56-23-5	Carbon tetrachloride	0.64	J	50	51.7	102	50	50.2	99	3	70-132/13
108-90-7	Chlorobenzene	ND		50	52.6	105	50	51.0	102	3	68-123/12
75-00-3	Chloroethane	ND		50	53.4	107	50	54.2	108	1	48-152/17
67-66-3	Chloroform	2.3		50	53.1	102	50	51.4	98	3	68-120/13
74-87-3	Chloromethane	ND		50	54.4	109	50	54.6	109	0	35-156/18
110-82-7	Cyclohexane	ND		50	47.0	94	50	47.2	94	0	53-146/14
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	56.4	113	50	55.4	111	2	63-134/16
124-48-1	Dibromochloromethane	ND		50	50.2	100	50	50.4	101	0	75-122/12
106-93-4	1,2-Dibromoethane	ND		50	54.8	110	50	53.0	106	3	63-134/12
95-50-1	1,2-Dichlorobenzene	ND		50	55.0	110	50	54.4	109	1	74-119/12
541-73-1	1,3-Dichlorobenzene	ND		50	55.4	111	50	54.5	109	2	75-117/12
106-46-7	1,4-Dichlorobenzene	ND		50	53.8	108	50	53.2	106	1	72-117/12
75-71-8	Dichlorodifluoromethane	ND		50	46.4	93	50	47.9	96	3	34-163/16
75-34-3	1,1-Dichloroethane	ND		50	56.0	112	50	54.5	109	3	68-129/13
107-06-2	1,2-Dichloroethane	4.0		50	58.2	108	50	56.6	105	3	66-120/13
75-35-4	1,1-Dichloroethene	ND		50	51.3	103	50	49.7	99	3	59-133/15
156-59-2	cis-1,2-Dichloroethene	ND		50	52.1	104	50	49.8	100	5	52-140/12
156-60-5	trans-1,2-Dichloroethene	ND		50	51.6	103	50	51.0	102	1	70-125/13
78-87-5	1,2-Dichloropropane	ND		50	62.7	125* [b]	50	59.5	119	5	73-124/12
10061-01-5	cis-1,3-Dichloropropene	ND		50	60.0	120	50	57.7	115	4	75-125/13
10061-02-6	trans-1,3-Dichloropropene	ND		50	60.3	121	50	59.9	120	1	75-122/12
123-91-1	1,4-Dioxane	ND		1250	1410	113	1250	1510	121	7	57-145/40
100-41-4	Ethylbenzene	ND		50	54.1	108	50	52.4	105	3	37-144/12
76-13-1	Freon 113	ND		50	46.9	94	50	46.1	92	2	61-142/14
591-78-6	2-Hexanone	ND		200	261	131	200	251	126	4	56-132/16
98-82-8	Isopropylbenzene	ND		50	54.2	108	50	53.0	106	2	71-126/13
79-20-9	Methyl Acetate	ND		50	60.1	120	50	56.6	113	6	51-139/18
108-87-2	Methylcyclohexane	ND		50	54.3	109	50	52.1	104	4	59-137/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD50176-22MS	3D180789.D	1	08/25/22	NW	n/a	n/a	V3D7613
JD50176-22MSD	3D180790.D	1	08/25/22	NW	n/a	n/a	V3D7613
JD50176-22 [a]	3D180787.D	1	08/24/22	NW	n/a	n/a	V3D7613

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-1, JD50363-2, JD50363-3, JD50363-4, JD50363-5, JD50363-6, JD50363-7

CAS No.	Compound	JD50176-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1634-04-4	Methyl Tert Butyl Ether	ND		50	54.3	109	50	53.2	106	2	66-124/12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		200	260	130	200	249	125	4	65-135/14
75-09-2	Methylene chloride	1.7	J	50	51.6	100	50	49.9	96	3	66-125/14
100-42-5	Styrene	ND		50	54.0	108	50	53.2	106	1	71-133/12
79-34-5	1,1,2,2-Tetrachloroethane	22.6		50	88.1	131* [b]	50	86.7	128* [b]	2	68-127/14
127-18-4	Tetrachloroethene	3.8		50	48.8	90	50	48.9	90	0	58-132/13
108-88-3	Toluene	ND		50	55.1	110	50	53.5	107	3	46-139/12
87-61-6	1,2,3-Trichlorobenzene	ND		50	54.0	108	50	54.2	108	0	57-136/17
120-82-1	1,2,4-Trichlorobenzene	ND		50	56.0	112	50	55.9	112	0	61-137/16
71-55-6	1,1,1-Trichloroethane	ND		50	51.3	103	50	51.0	102	1	67-132/13
79-00-5	1,1,2-Trichloroethane	ND		50	58.3	117	50	56.4	113	3	75-120/12
79-01-6	Trichloroethene	7.2		50	57.2	100	50	56.8	99	1	56-136/12
75-69-4	Trichlorofluoromethane	ND		50	49.2	98	50	49.5	99	1	61-145/16
75-01-4	Vinyl chloride	ND		50	54.3	109	50	54.0	108	1	41-156/16
	m,p-Xylene	ND		100	107	107	100	105	105	2	32-151/12
95-47-6	o-Xylene	ND		50	52.9	106	50	52.3	105	1	50-139/12
1330-20-7	Xylene (total)	ND		150	160	107	150	157	105	2	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD50176-22	Limits
1868-53-7	Dibromofluoromethane	97%	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	114%	113%		80-120%
2037-26-5	Toluene-D8	104%	103%		80-120%
460-00-4	4-Bromofluorobenzene	108%	108%		82-114%

(a) Sample used for QC purposes only.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD50818-4DUP	2A219747.D	1	08/30/22	NW	n/a	n/a	V2A9549
JD50818-4	2A219740.D	1	08/30/22	NW	n/a	n/a	V2A9549

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD50363-2, JD50363-5

CAS No.	Compound	JD50818-4 ug/l	Q	DUP ug/l	Q	RPD	Limits
75-00-3	Chloroethane	ND		ND		nc	10
75-34-3	1,1-Dichloroethane	0.62	J	0.62	J	0	10

CAS No.	Surrogate Recoveries	DUP	JD50818-4	Limits
1868-53-7	Dibromofluoromethane	103%	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	93%	92%	80-120%
2037-26-5	Toluene-D8	97%	97%	80-120%
460-00-4	4-Bromofluorobenzene	97%	98%	82-114%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-BFB
Lab File ID: 2A218780.D
Instrument ID: GCMS2A
Injection Date: 07/31/22
Injection Time: 16:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	75120	25.4		Pass
75	30.0 - 60.0% of mass 95	147328	49.8		Pass
95	Base peak, 100% relative abundance	295616	100.0		Pass
96	5.0 - 9.0% of mass 95	20757	7.02		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	260096	88.0		Pass
175	5.0 - 9.0% of mass 174	19904	6.73	(7.65) [a]	Pass
176	95.0 - 101.0% of mass 174	248768	84.2	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	16468	5.57	(6.62) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A9511-IC9511	2A218781.D	07/31/22	17:23	00:33	Initial cal 0.2
V2A9511-IC9511	2A218782.D	07/31/22	17:51	01:01	Initial cal 0.5
V2A9511-IC9511	2A218783.D	07/31/22	18:19	01:29	Initial cal 1
V2A9511-IC9511	2A218784.D	07/31/22	18:48	01:58	Initial cal 2
V2A9511-IC9511	2A218785.D	07/31/22	19:16	02:26	Initial cal 4
V2A9511-IC9511	2A218786.D	07/31/22	19:44	02:54	Initial cal 8
V2A9511-IC9511	2A218787.D	07/31/22	20:13	03:23	Initial cal 20
V2A9511-ICC9511	2A218788.D	07/31/22	20:41	03:51	Initial cal 50
V2A9511-IC9511	2A218789.D	07/31/22	21:09	04:19	Initial cal 100
V2A9511-IC9511	2A218790.D	07/31/22	21:38	04:48	Initial cal 200
V2A9511-ICV9511	2A218793.D	07/31/22	23:03	06:13	Initial cal verification 50
V2A9511-ICV9511	2A218794.D	07/31/22	23:31	06:41	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9549-BFB
Lab File ID: 2A219732.D
Instrument ID: GCMS2A
Injection Date: 08/30/22
Injection Time: 09:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	85997	22.4		Pass
75	30.0 - 60.0% of mass 95	184469	48.0		Pass
95	Base peak, 100% relative abundance	384469	100.0		Pass
96	5.0 - 9.0% of mass 95	26896	7.00		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	341333	88.8		Pass
175	5.0 - 9.0% of mass 174	27211	7.08	(7.97) [a]	Pass
176	95.0 - 101.0% of mass 174	330283	85.9	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	22797	5.93	(6.90) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A9549-CC9511	2A219732.D	08/30/22	09:48	00:00	Continuing cal 20
V2A9549-BS	2A219734.D	08/30/22	11:06	01:18	Blank Spike
V2A9549-MB	2A219736.D	08/30/22	12:04	02:16	Method Blank
ZZZZZZ	2A219737.D	08/30/22	12:42	02:54	(unrelated sample)
ZZZZZZ	2A219738.D	08/30/22	13:11	03:23	(unrelated sample)
JD50818-3	2A219739.D	08/30/22	13:41	03:53	(used for QC only; not part of job JD50363)
JD50818-4	2A219740.D	08/30/22	14:11	04:23	(used for QC only; not part of job JD50363)
ZZZZZZ	2A219741.D	08/30/22	14:41	04:53	(unrelated sample)
JD50363-2	2A219742.D	08/30/22	15:11	05:23	EW-0
JD50363-5	2A219743.D	08/30/22	15:42	05:54	EW-0 DUP
ZZZZZZ	2A219744.D	08/30/22	16:12	06:24	(unrelated sample)
ZZZZZZ	2A219745.D	08/30/22	16:42	06:54	(unrelated sample)
ZZZZZZ	2A219746.D	08/30/22	17:13	07:25	(unrelated sample)
JD50818-4DUP	2A219747.D	08/30/22	17:44	07:56	Duplicate
JD50818-3MS	2A219748.D	08/30/22	18:15	08:27	Matrix Spike
ZZZZZZ	2A219750.D	08/30/22	19:16	09:28	(unrelated sample)
ZZZZZZ	2A219751.D	08/30/22	19:46	09:58	(unrelated sample)
ZZZZZZ	2A219752.D	08/30/22	20:16	10:28	(unrelated sample)
ZZZZZZ	2A219753.D	08/30/22	20:47	10:59	(unrelated sample)
ZZZZZZ	2A219754.D	08/30/22	21:16	11:28	(unrelated sample)
ZZZZZZ	2A219755.D	08/30/22	21:46	11:58	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-BFB
Lab File ID: 3D179852.D
Instrument ID: GCMS3D
Injection Date: 08/03/22
Injection Time: 19:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	41317	21.2		Pass
75	30.0 - 60.0% of mass 95	101216	52.0		Pass
95	Base peak, 100% relative abundance	194773	100.0		Pass
96	5.0 - 9.0% of mass 95	12704	6.52		Pass
173	Less than 2.0% of mass 174	1441	0.74	(1.05) [a]	Pass
174	50.0 - 120.0% of mass 95	137064	70.4		Pass
175	5.0 - 9.0% of mass 174	11207	5.75	(8.18) [a]	Pass
176	95.0 - 101.0% of mass 174	132197	67.9	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	9256	4.75	(7.00) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3D7582-IC7582	3D179853.D	08/03/22	20:17	00:32	Initial cal 0.2
V3D7582-IC7582	3D179854.D	08/03/22	20:41	00:56	Initial cal 0.5
V3D7582-IC7582	3D179855.D	08/03/22	21:04	01:19	Initial cal 1
V3D7582-IC7582	3D179856.D	08/03/22	21:28	01:43	Initial cal 2
V3D7582-IC7582	3D179857.D	08/03/22	21:51	02:06	Initial cal 4
V3D7582-IC7582	3D179858.D	08/03/22	22:15	02:30	Initial cal 8
V3D7582-IC7582	3D179859.D	08/03/22	22:38	02:53	Initial cal 20
V3D7582-ICC7582	3D179860.D	08/03/22	23:02	03:17	Initial cal 50
V3D7582-IC7582	3D179861.D	08/03/22	23:26	03:41	Initial cal 100
V3D7582-IC7582	3D179862.D	08/03/22	23:49	04:04	Initial cal 200
V3D7582-ICV7582	3D179865.D	08/04/22	00:59	05:14	Initial cal verification 50
V3D7582-ICV7582	3D179866.D	08/04/22	01:23	05:38	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7613-BFB
Lab File ID: 3D180782.D
Instrument ID: GCMS3D
Injection Date: 08/24/22
Injection Time: 21:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	40451	25.1		Pass
75	30.0 - 60.0% of mass 95	90237	56.0		Pass
95	Base peak, 100% relative abundance	161045	100.0		Pass
96	5.0 - 9.0% of mass 95	11292	7.01		Pass
173	Less than 2.0% of mass 174	1391	0.86	(1.34) [a]	Pass
174	50.0 - 120.0% of mass 95	104171	64.7		Pass
175	5.0 - 9.0% of mass 174	8109	5.04	(7.78) [a]	Pass
176	95.0 - 101.0% of mass 174	102661	63.7	(98.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7076	4.39	(6.89) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3D7613-CC7582	3D180782.D	08/24/22	21:47	00:00	Continuing cal 50
V3D7613-BS	3D180784.D	08/24/22	22:34	00:47	Blank Spike
V3D7613-MB	3D180786.D	08/24/22	23:21	01:34	Method Blank
JD50176-22	3D180787.D	08/24/22	23:44	01:57	(used for QC only; not part of job JD50363)
JD50363-3	3D180788.D	08/25/22	00:08	02:21	MW-1
JD50176-22MS	3D180789.D	08/25/22	00:32	02:45	Matrix Spike
JD50176-22MSD	3D180790.D	08/25/22	00:55	03:08	Matrix Spike Duplicate
JD50363-3	3D180791.D	08/25/22	01:19	03:32	MW-1
JD50363-6	3D180792.D	08/25/22	01:42	03:55	FIELD BLANK
JD50363-7	3D180793.D	08/25/22	02:06	04:19	TRIP BLANK
ZZZZZZ	3D180794.D	08/25/22	02:29	04:42	(unrelated sample)
ZZZZZZ	3D180795.D	08/25/22	02:53	05:06	(unrelated sample)
ZZZZZZ	3D180798.D	08/25/22	04:03	06:16	(unrelated sample)
ZZZZZZ	3D180799.D	08/25/22	04:26	06:39	(unrelated sample)
ZZZZZZ	3D180800.D	08/25/22	04:50	07:03	(unrelated sample)
JD50363-2	3D180801.D	08/25/22	05:14	07:27	EW-0
JD50363-4	3D180802.D	08/25/22	05:37	07:50	EW-1X
JD50363-5	3D180803.D	08/25/22	06:00	08:13	EW-0 DUP
ZZZZZZ	3D180804.D	08/25/22	06:24	08:37	(unrelated sample)
ZZZZZZ	3D180805.D	08/25/22	06:47	09:00	(unrelated sample)
ZZZZZZ	3D180806.D	08/25/22	07:11	09:24	(unrelated sample)
ZZZZZZ	3D180807.D	08/25/22	07:34	09:47	(unrelated sample)
JD50363-1	3D180808.D	08/25/22	07:58	10:11	S-8

Internal Standard Area Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Check Std:	V2A9549-CC9511	**Injection Date:**	08/30/22
Lab File ID:	2A219732.D	**Injection Time:**	09:48
Instrument ID:	GCMS2A	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	498492	7.26	870308	9.51	1202835	10.44	1199460	13.56	661922	15.89
Upper Limit [a]	996984	7.76	1740616	10.01	2405670	10.94	2398920	14.06	1323844	16.39
Lower Limit [b]	249246	6.76	435154	9.01	601418	9.94	599730	13.06	330961	15.39

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2A9549-BS	506087	7.25	896351	9.51	1224485	10.44	1224197	13.56	674550	15.89
V2A9549-MB	481313	7.25	867394	9.51	1180113	10.44	1180235	13.56	644692	15.89
ZZZZZZ	485738	7.26	843247	9.52	1143837	10.44	1152599	13.56	633469	15.89
ZZZZZZ	445035	7.26	794656	9.51	1085887	10.44	1101131	13.56	599220	15.89
JD50818-3	454819	7.25	808420	9.51	1110060	10.44	1127841	13.56	611906	15.89
JD50818-4	419989	7.26	800700	9.51	1095537	10.44	1113572	13.56	606638	15.89
ZZZZZZ	402908	7.26	793821	9.51	1082804	10.44	1109940	13.56	609210	15.89
JD50363-2	419803	7.25	787866	9.51	1081516	10.44	1100745	13.56	602866	15.89
JD50363-5 [c]	426414	7.25	772924	9.51	1060954	10.44	1085039	13.56	586862	15.89
ZZZZZZ	436257	7.26	775542	9.51	1055472	10.44	1070785	13.56	590001	15.89
ZZZZZZ	457006	7.26	776923	9.51	1068114	10.44	1085360	13.56	595424	15.89
ZZZZZZ	458108	7.26	786669	9.52	1079843	10.44	1097397	13.56	593236	15.89
JD50818-4DUP	440180	7.26	772071	9.51	1057863	10.44	1086219	13.56	590669	15.89
JD50818-3MS	432904	7.25	812413	9.51	1113969	10.44	1153911	13.56	631500	15.89
ZZZZZZ	452060	7.26	790339	9.51	1090458	10.44	1101525	13.56	600530	15.89
ZZZZZZ	466116	7.25	794352	9.51	1093797	10.44	1118668	13.56	606585	15.89
ZZZZZZ	475335	7.26	786992	9.51	1081086	10.44	1108795	13.56	602573	15.89
ZZZZZZ	452292	7.25	784424	9.51	1071427	10.44	1102888	13.56	602176	15.89
ZZZZZZ	460025	7.25	776795	9.51	1078166	10.44	1093320	13.56	597747	15.89
ZZZZZZ	480089	7.26	775794	9.51	1074654	10.44	1097265	13.56	597474	15.89

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Sample analyzed with head-space vial.

Internal Standard Area Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Check Std:	V3D7613-CC7582	**Injection Date:**	08/24/22
Lab File ID:	3D180782.D	**Injection Time:**	21:47
Instrument ID:	GCMS3D	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	193052	2.87	315692	4.07	525146	4.62	547179	7.00	241694	9.19
Upper Limit [a]	386104	3.37	631384	4.57	1050292	5.12	1094358	7.50	483388	9.69
Lower Limit [b]	96526	2.37	157846	3.57	262573	4.12	273590	6.50	120847	8.69

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V3D7613-BS	204971	2.87	319526	4.07	534387	4.62	547439	7.00	237930	9.19
V3D7613-MB	212155	2.87	359401	4.07	566808	4.62	544595	7.00	241531	9.19
JD50176-22	242150	2.87	354679	4.07	554078	4.62	549358	7.00	238792	9.19
JD50363-3	232581	2.87	331843	4.07	530530	4.62	528526	7.00	244163	9.19
JD50176-22MS	194831	2.87	323812	4.07	534886	4.62	554902	7.00	236443	9.19
JD50176-22MSD	213102	2.87	345024	4.07	568121	4.62	583281	7.00	248066	9.19
JD50363-3	229906	2.87	372034	4.07	576232	4.62	562348	7.00	244144	9.19
JD50363-6	217088	2.87	365833	4.07	575692	4.62	555402	7.00	245726	9.19
JD50363-7	238629	2.87	359238	4.07	557171	4.62	547457	7.00	241444	9.19
ZZZZZZ	221902	2.87	360226	4.07	556497	4.62	547417	7.00	237181	9.19
ZZZZZZ	213081	2.87	354026	4.07	558640	4.62	539354	7.00	236224	9.19
ZZZZZZ	205634	2.87	349960	4.07	550243	4.62	548221	7.00	240655	9.19
ZZZZZZ	212654	2.87	355815	4.07	565425	4.62	553877	7.00	238003	9.19
ZZZZZZ	253170	2.87	353010	4.07	551831	4.62	542814	7.00	237552	9.19
JD50363-2 [c]	221006	2.87	337071	4.07	537783	4.62	540612	7.00	235798	9.19
JD50363-4	229418	2.87	340283	4.07	535595	4.62	537268	7.00	231272	9.19
JD50363-5 [c]	223324	2.87	328710	4.07	526937	4.62	530030	7.00	235986	9.19
ZZZZZZ	207142	2.87	339994	4.07	534899	4.62	534752	7.00	230672	9.19
ZZZZZZ	234377	2.87	349950	4.07	545798	4.62	541721	7.00	235266	9.19
ZZZZZZ	211543	2.87	347074	4.07	546412	4.62	538923	7.00	232293	9.19
ZZZZZZ	243944	2.87	342636	4.07	541736	4.62	534696	7.00	242193	9.19
JD50363-1	235951	2.87	349872	4.07	554192	4.62	543543	7.00	239020	9.19

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to high concentration of target compound.

Surrogate Recovery Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD50363-1	3D180808.D	94	118	110	105
JD50363-2	2A219742.D	103	92	98	96
JD50363-2	3D180801.D	96	114	109	107
JD50363-3	3D180791.D	94	116	111	108
JD50363-3	3D180788.D	96	118	108	102
JD50363-4	3D180802.D	97	116	109	107
JD50363-5	2A219743.D	102	93	98	99
JD50363-5	3D180803.D	97	114	109	105
JD50363-6	3D180792.D	95	116	110	105
JD50363-7	3D180793.D	95	118	110	106
JD50176-22MS	3D180789.D	97	114	104	108
JD50176-22MSD	3D180790.D	97	113	103	108
JD50818-3MS	2A219748.D	102	91	97	97
JD50818-4DUP	2A219747.D	103	93	97	97
V2A9549-BS	2A219734.D	99	91	99	97
V2A9549-MB	2A219736.D	100	93	98	98
V3D7613-BS	3D180784.D	97	112	103	107
V3D7613-MB	3D180786.D	96	118	109	104

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

Initial Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-ICC9511
Lab FileID: 2A218788.D

Response Factor Report GCMS2A

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

Calibration Files
4 =2A218785.D 8 =2A218786.D 0.5 =2A218782.D 50 =2A218788.D
100 =2A218789.D 1 =2A218783.D 200 =2A218790.D 20 =2A218787.D
2 =2A218784.D 0.2 =2A218781.D = =

Compound	4	8	0.5	50	100	1	200	20	2	0.2	Avg	%RSD
1) I tert butyl alcohol-d9	----------ISTD----------											
2) ethanol	0.120	0.117	0.121	0.134	0.120	0.134	0.117	0.110			0.122	6.95
3) tertiary butyl alcohol	1.168	1.193	1.217	1.273	1.227	1.234	1.165	1.350			1.228	4.94
4) 1,4-dioxane	0.086	0.089	0.092	0.096	0.068	0.094	0.085	0.079			0.086	10.61
5) I pentafluorobenzene	----------ISTD----------											
6) chlorodifluoromethane	0.751	0.738	0.643	0.665	0.665	0.679	0.618	0.653	0.725		0.682	6.72
7) dichlorodifluoromethane	0.722	0.699	0.565	0.680	0.664	0.696	0.637	0.671	0.710		0.672	7.06
8) chloromethane	0.915	0.867	0.962	0.820	0.809	0.904	0.736	0.812	0.996		0.869	9.53
9) vinyl chloride	0.704	0.677	0.606	0.658	0.651	0.694	0.610	0.641	0.738		0.665	6.56
10) 1,3-butadiene	0.640	0.614	0.689	0.550	0.542	0.589	0.499	0.569	0.636		0.592	9.92
11) bromomethane	0.407	0.372	0.436	0.376	0.387	0.397	0.373	0.361	0.417		0.392	6.24
12) chloroethane	0.333	0.307	0.288	0.315	0.324	0.311	0.317	0.305	0.331		0.315	4.46
13) trichlorofluoromethane	0.806	0.760	0.657	0.759	0.759	0.724	0.732	0.744	0.838	0.669	0.745	7.36
14) ethyl ether	0.239	0.237	0.236	0.231	0.239	0.230	0.232	0.230	0.262		0.237	4.16
15) acrolein	0.087	0.108	0.110	0.114	0.109	0.112	0.098	0.111			0.106	8.58
16) freon 113	0.369	0.354	0.409	0.339	0.340	0.337	0.330	0.330	0.377		0.354	7.53
17) 1,1-dichloroethene	0.386	0.382	0.403	0.357	0.359	0.356	0.340	0.352	0.403		0.371	6.25
18) acetone	0.197	0.194	0.213	0.181	0.188	0.195	0.176	0.180	0.207		0.192	6.53
19) acetonitrile	0.085	0.079	0.077	0.077	0.080	0.079	0.076	0.076	0.085		0.079	4.41
20) iodomethane	0.766	0.750	0.789	0.701	0.707	0.684	0.667	0.692	0.746	0.738	0.724	5.45
21) carbon disulfide	1.277	1.276	1.318	1.194	1.194	1.229	1.096	1.169	1.308		1.229	5.92
22) methylene chloride	0.451	0.431	0.543	0.412	0.422	0.433	0.398	0.402	0.464		0.440	10.09
23) methyl acetate												

0.490 0.513 0.470 0.476 0.493 0.432 0.463 0.468 0.508 0.479 5.17

24) methyl tert butyl ether
1.373 1.341 1.462 1.257 1.275 1.298 1.166 1.250 1.415 1.391 1.323 6.79

25) trans-1,2-dichloroethene
0.426 0.417 0.471 0.399 0.403 0.429 0.383 0.392 0.464 0.420 7.33

26) hexane
0.763 0.763 0.802 0.708 0.712 0.706 0.677 0.716 0.772 0.853 0.747 7.13

27) di-isopropyl ether
1.920 1.914 1.844 1.790 1.776 1.729 1.573 1.786 1.963 2.017 1.831 7.07

28) ethyl tert-butyl ether
1.665 1.636 1.598 1.563 1.557 1.555 1.404 1.536 1.672 1.752 1.594 5.96

29) 2-butanone
0.052 0.051 0.053 0.057 0.045 0.054 0.050 0.053 0.052 6.22

30) 1,1-dichloroethane
0.818 0.847 0.885 0.792 0.807 0.798 0.752 0.781 0.861 0.880 0.822 5.40

31) chloroprene
0.800 0.831 0.737 0.784 0.798 0.735 0.744 0.770 0.796 0.811 0.781 4.22

32) acrylonitrile
0.211 0.214 0.217 0.229 0.185 0.222 0.211 0.207 0.212 6.14

33) vinyl acetate
0.075 0.086 0.080 0.091 0.054 0.087 0.075 0.072 0.078 15.02

34) ethyl acetate
0.100 0.106 0.097 0.103 0.069 0.100 0.092 0.101 0.096 11.99

35) 2,2-dichloropropane
0.672 0.676 0.758 0.624 0.629 0.644 0.589 0.597 0.659 0.720 0.657 8.04

36) cis-1,2-dichloroethene
0.469 0.479 0.567 0.444 0.451 0.453 0.428 0.430 0.498 0.405 0.462 9.86

37) propionitrile
0.081 0.081 0.076 0.079 0.082 0.075 0.075 0.077 0.086 0.079 4.93

38) bromochloromethane
0.311 0.323 0.301 0.307 0.310 0.302 0.294 0.297 0.322 0.307 3.27

39) tetrahydrofuran
0.235 0.216 0.194 0.204 0.262 0.193 0.197 0.254 0.219 12.58

40) chloroform
0.849 0.849 1.116 0.791 0.788 0.876 0.720 0.777 0.921 0.854 13.46

41) tert-butyl formate *This compound fails initial calibration criteria.*
0.419 0.416 0.397 0.439 0.476 0.371 0.451 0.415 0.393 0.376 0.415 8.00

42) isobutyl alcohol
0.031 0.034 0.035 0.035 0.030 0.032 0.031 0.038 0.033 8.27

43) dibromofluoromethane (s)
0.473 0.472 0.469 0.475 0.465 0.473 0.470 0.470 0.474 0.465 0.471 0.75

44) methacrylonitrile
0.204 0.194 0.196 0.208 0.183 0.200 0.190 0.197 0.196 3.97

45) 1,1,1-trichloroethane
0.786 0.754 0.792 0.728 0.734 0.731 0.676 0.717 0.787 0.712 0.742 5.09

46) cyclohexane
0.658 0.626 0.566 0.620 0.633 0.614 0.605 0.602 0.704 0.570 0.620 6.51

47) 1,1-dichloropropene
0.612 0.619 0.649 0.571 0.583 0.543 0.539 0.563 0.630 0.663 0.597 7.32

48) tert-amyl alcohol
0.034 0.033 0.030 0.033 0.036 0.032 0.031 0.037 0.033 6.50

49) carbon tetrachloride
0.691 0.704 0.721 0.657 0.668 0.638 0.615 0.633 0.699 0.670 0.669 5.14

50) I 1,4-difluorobenzene ----------ISTD----------

51) 1,2-dichloroethane-d4 (s)
0.464 0.465 0.464 0.466 0.465 0.463 0.463 0.465 0.467 0.467 0.465 0.29

52) 2,2,4-trimethylpentane
1.456 1.485 1.387 1.354 1.365 1.393 1.208 1.388 1.467 1.549 1.405 6.59

53) tert-amyl methyl ether

```
      1.069 1.049 1.090 0.994 0.998 1.015 0.883 0.984 1.072 1.144  1.030    6.99
54)  n-butyl alcohol
      0.012 0.013 0.012 0.013 0.014 0.011 0.013 0.013 0.015        0.013    9.53
55)  benzene
      1.247 1.259 1.223 1.169 1.162 1.186 1.016 1.167 1.234 1.200  1.186    5.82
56)  heptane
      0.288 0.300 0.286 0.288 0.292 0.284 0.279 0.282 0.309 0.257  0.287    4.76
57)  isopropyl acetate
      0.071 0.078       0.072 0.079 0.074 0.075 0.071 0.076        0.074    4.50
58)  1,2-dichloroethane
      0.552 0.570 0.651 0.525 0.535 0.569 0.486 0.522 0.607        0.557    8.86
59)  trichloroethene
      0.350 0.351 0.374 0.332 0.337 0.325 0.315 0.321 0.350 0.336  0.339    5.15
60)  ethyl acrylate
      0.549 0.557 0.538 0.555 0.578 0.483 0.524 0.542 0.522        0.539    5.04
61)  2-nitropropane
      0.130 0.141       0.146 0.157 0.135 0.146 0.136 0.141        0.142    5.88
62)  2-chloroethyl vinyl ether
      0.105 0.124       0.159 0.185       0.173 0.139 0.086        0.139   26.10
            ----- Linear regression -----  Coefficient =  0.9963
              Response Ratio = -0.02656 + 0.17526 *A

63)  methyl methacrylate
      0.085 0.091       0.089 0.096 0.065 0.091 0.084 0.081        0.085   11.07
64)  1,2-dichloropropane
      0.373 0.371 0.347 0.344 0.355 0.344 0.333 0.334 0.367        0.352    4.33
65)  methylcyclohexane
      0.584 0.569 0.521 0.540 0.553 0.561 0.517 0.539 0.575 0.591  0.555    4.57
66)  dibromomethane
      0.227 0.228 0.268 0.218 0.228 0.203 0.213 0.219 0.248 0.259  0.231    9.02
67)  bromodichloromethane
      0.483 0.498 0.512 0.471 0.485 0.455 0.442 0.456 0.474 0.509  0.478    4.90
68)  epichlorohydrin
      0.042 0.043       0.044 0.046 0.032 0.043 0.042 0.045        0.042   10.18
69)  cis-1,3-dichloropropene
      0.543 0.547 0.531 0.533 0.545 0.494 0.490 0.525 0.538 0.489  0.524    4.49
70)  4-methyl-2-pentanone
      0.167 0.172 0.167 0.167 0.173 0.153 0.156 0.162 0.179 0.165  0.166    4.75
71)  3-methyl-1-butanol
      0.011 0.011 0.008 0.011 0.012 0.008 0.011 0.010 0.010        0.010   12.91

72) I   chlorobenzene-d5      ----------------ISTD---------------------
73)  toluene-d8 (s)
      1.227 1.234 1.225 1.230 1.230 1.221 1.208 1.235 1.226 1.213  1.225    0.72
74)  toluene
      0.821 0.818 0.847 0.772 0.781 0.749 0.697 0.772 0.843 0.842  0.794    6.14
75)  trans-1,3-dichloropropene
      0.562 0.564 0.505 0.537 0.547 0.483 0.494 0.521 0.535 0.516  0.527    5.22
76)  ethyl methacrylate
      0.466 0.486 0.396 0.473 0.488 0.380 0.442 0.473 0.463        0.452    8.63
77)  1,1,2-trichloroethane
      0.285 0.286 0.285 0.272 0.277 0.262 0.254 0.271 0.279 0.260  0.273    4.19
78)  2-hexanone
      0.171 0.172 0.163 0.168 0.175 0.151 0.153 0.167 0.175        0.166    5.31
79)  tetrachloroethene
      0.405 0.405 0.461 0.376 0.383 0.387 0.354 0.370 0.432 0.383  0.395    7.99
80)  1,3-dichloropropane
      0.529 0.537 0.537 0.502 0.512 0.491 0.466 0.490 0.556 0.620  0.524    8.23
81)  butyl acetate
      0.277 0.294 0.266 0.290 0.306 0.277 0.280 0.291 0.287        0.285    4.10
```

Initial Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-ICC9511
Lab FileID: 2A218788.D

82) dibromochloromethane
0.408 0.412 0.395 0.405 0.420 0.371 0.386 0.395 0.392 0.402 0.399 3.54
83) 1,2-dibromoethane
0.356 0.357 0.327 0.341 0.351 0.315 0.322 0.332 0.352 0.329 0.338 4.50
84) n-butyl ether
1.704 1.719 1.673 1.569 1.475 1.517 1.145 1.589 1.695 1.653 1.574 10.92
85) chlorobenzene
0.923 0.930 0.930 0.858 0.844 0.849 0.728 0.872 0.917 0.811 0.866 7.41
86) 1,1,1,2-tetrachloroethane
0.355 0.366 0.380 0.345 0.358 0.331 0.334 0.340 0.353 0.321 0.348 5.11
87) ethylbenzene
1.624 1.614 1.615 1.444 1.352 1.475 1.064 1.474 1.625 1.606 1.489 11.92
88) m,p-xylene
0.609 0.613 0.609 0.569 0.571 0.555 0.500 0.570 0.616 0.576 0.579 6.13
89) o-xylene
1.324 1.305 1.265 1.188 1.148 1.180 0.934 1.196 1.290 1.325 1.216 9.73
90) styrene
0.982 1.029 0.918 0.965 0.961 0.854 0.812 0.962 1.013 0.924 0.942 7.17
91) n-amyl acetate
0.246 0.256 0.211 0.258 0.271 0.218 0.253 0.250 0.251 0.246 7.87
92) bromoform
0.290 0.292 0.283 0.307 0.321 0.245 0.295 0.285 0.286 0.263 0.287 7.37
93) butyl acrylate
0.891 0.914 0.725 0.896 0.898 0.699 0.754 0.892 0.877 0.838 10.24
94) isopropylbenzene
1.543 1.593 1.545 1.452 1.359 1.388 1.080 1.480 1.587 1.471 1.450 10.47
95) cis-1,4-dichloro-2-butene
0.145 0.156 0.144 0.175 0.186 0.113 0.173 0.163 0.148 0.156 13.80

96) I 1,4-dichlorobenzene-d ----------ISTD----------
97) 4-bromofluorobenzene (s)
0.926 0.938 0.933 0.918 0.912 0.935 0.922 0.924 0.918 0.922 0.925 0.91
98) bromobenzene
0.799 0.827 0.884 0.758 0.771 0.739 0.709 0.751 0.822 0.943 0.800 8.90
99) 1,1,2,2-tetrachloroethane
0.889 0.883 0.885 0.836 0.843 0.822 0.761 0.838 0.884 0.856 0.850 4.66
100) trans-1,4-dichloro-2-butene
0.281 0.290 0.295 0.318 0.224 0.300 0.285 0.271 0.283 9.78
101) 1,2,3-trichloropropane
0.238 0.222 0.219 0.215 0.226 0.200 0.211 0.214 0.224 0.219 4.83
102) n-propylbenzene
3.535 3.580 3.477 3.142 2.874 3.246 2.209 3.236 3.521 3.271 3.209 12.87
103) 2-chlorotoluene
0.719 0.733 0.669 0.686 0.697 0.654 0.647 0.671 0.701 0.807 0.699 6.74
104) 4-chlorotoluene
2.204 2.197 2.184 1.973 1.899 2.011 1.608 2.021 2.227 2.086 2.041 9.26
105) 1,3,5-trimethylbenzene
2.363 2.452 2.420 2.209 2.113 2.139 1.728 2.208 2.428 2.232 2.229 9.66
106) tert-butylbenzene
2.055 2.080 2.065 1.908 1.842 1.862 1.587 1.876 2.014 2.021 1.931 7.82
107) 1,2,4-trimethylbenzene
2.447 2.503 2.402 2.249 2.131 2.191 1.738 2.272 2.398 2.373 2.270 9.72
108) sec-butylbenzene
3.127 3.179 3.030 2.864 2.678 2.799 2.113 2.889 3.159 2.956 2.879 10.93
109) 1,3-dichlorobenzene
1.481 1.505 1.543 1.387 1.369 1.416 1.203 1.395 1.557 1.408 1.426 7.25
110) p-isopropyltoluene
2.609 2.680 2.558 2.430 2.301 2.363 1.866 2.449 2.580 2.718 2.455 10.07
111) benzyl chloride
1.409 1.496 1.344 1.496 1.507 1.203 1.306 1.424 1.399 1.398 7.21

Initial Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-ICC9511
Lab FileID: 2A218788.D

112) 1,2,3-trimethylbenzene
2.465 2.503 2.650 2.286 2.164 2.242 1.744 2.301 2.522 2.539 2.341 11.13
113) 1,4-dichlorobenzene
1.534 1.543 1.454 1.419 1.413 1.497 1.227 1.399 1.584 1.762 1.483 9.44
114) 1,2-dichlorobenzene
1.452 1.500 1.429 1.384 1.356 1.388 1.173 1.381 1.484 1.395 1.394 6.51
115) n-butylbenzene
1.354 1.417 1.295 1.328 1.321 1.202 1.155 1.316 1.416 1.255 1.306 6.44
116) 1,2-dibromo-3-chloropropane
0.167 0.206 0.157 0.198 0.208 0.154 0.195 0.188 0.188 0.184 10.96
117) 1,3,5-trichlorobenzene
1.140 1.148 1.116 1.094 1.082 1.032 0.955 1.064 1.144 1.120 1.090 5.53
118) 1,2,4-trichlorobenzene
0.983 1.000 0.897 0.981 0.989 0.848 0.881 0.962 0.968 0.862 0.937 6.21
119) hexachlorobutadiene
0.518 0.529 0.451 0.486 0.503 0.469 0.464 0.483 0.507 0.413 0.482 7.16
120) naphthalene
2.332 2.429 1.960 2.388 2.334 2.078 1.906 2.348 2.344 2.209 2.233 8.37
121) 1,2,3-trichlorobenzene
0.922 0.936 0.859 0.924 0.936 0.789 0.843 0.900 0.949 0.765 0.882 7.41
122) hexachloroethane
0.396 0.448 0.353 0.445 0.463 0.331 0.436 0.415 0.395 0.337 0.402 11.91
123) 2-methylnaphthalene
0.967 1.086 1.269 1.387 1.276 1.124 0.858 1.138 16.39

124) pentafluorobenzene(a) ----------ISTD----------
125) vinyl bromide
0.000 -1.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2A9511.M Mon Aug 01 15:19:14 2022 MS2A

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-ICV9511
Lab FileID: 2A218793.D

Evaluate Continuing Calibration Report

Data File : C:\MSDChem\1\DATA\V2A9511\2A218793.D Vial: 14
Acq On : 31 Jul 2022 11:03 pm Operator: PrashanS
Sample : ICV9511-50 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Aug 01 15:13:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	104	0.00	7.25
2	ethanol	0.122	0.123	-0.8	105	0.00	5.98
3	tertiary butyl alcohol	1.228	1.271	-3.5	108	0.01	7.37
4	1,4-dioxane	0.086	0.093	-8.1	105	0.00	11.08
5 I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	9.51
6	chlorodifluoromethane		----------NA----------				
7	dichlorodifluoromethane	0.672	0.654	2.7	100	0.00	3.96
8	chloromethane	0.869	0.753	13.3	96	0.00	4.35
9	vinyl chloride	0.665	0.652	2.0	103	0.00	4.57
10	1,3-butadiene	0.592	0.676	-14.2	128	0.00	4.62
11	bromomethane	0.392	0.394	-0.5	109	0.00	5.19
12	chloroethane	0.315	0.337	-7.0	112	0.00	5.36
13	trichlorofluoromethane	0.745	0.773	-3.8	106	0.00	5.79
14	ethyl ether	0.237	0.234	1.3	106	0.00	6.19
15	acrolein	0.106	0.109	-2.8	104	0.00	6.41
16	freon 113	0.354	0.342	3.4	105	0.00	6.61
17	1,1-dichloroethene	0.371	0.364	1.9	106	0.00	6.60
18	acetone	0.192	0.181	5.7	104	0.00	6.61
19	acetonitrile	0.079	0.068	13.9	92	0.00	7.02
20	iodomethane	0.724	0.703	2.9	105	0.00	6.85
21	carbon disulfide	1.229	1.255	-2.1	110	0.00	6.98
22	methylene chloride	0.440	0.430	2.3	109	0.00	7.31
23	methyl acetate	0.479	0.510	-6.5	112	0.00	7.06
24	methyl tert butyl ether	1.323	1.315	0.6	109	0.00	7.66
25	trans-1,2-dichloroethene	0.420	0.410	2.4	107	0.00	7.69
26	hexane	0.747	0.816	-9.2	120	0.00	8.04
27	di-isopropyl ether	1.831	1.763	3.7	103	0.00	8.25
28	ethyl tert-butyl ether	1.594	1.501	5.8	100	0.00	8.71
29	2-butanone	0.052	0.056	-7.7	111	0.00	8.90
30	1,1-dichloroethane	0.822	0.799	2.8	105	0.00	8.26
31	chloroprene	0.781	0.851	-9.0	113	0.00	8.36
32	acrylonitrile	0.212	0.221	-4.2	106	0.00	7.59
33	vinyl acetate	0.078	0.075	3.8	97	0.00	8.20
34	ethyl acetate	0.096	0.099	-3.1	106	0.00	8.92
35	2,2-dichloropropane	0.657	0.592	9.9	99	0.00	9.00
36	cis-1,2-dichloroethene	0.462	0.447	3.2	105	0.00	8.97
37	propionitrile	0.079	0.077	2.5	102	0.00	8.98
38	bromochloromethane	0.307	0.305	0.7	104	0.00	9.26
39	tetrahydrofuran	0.219	0.194	11.4	104	0.00	9.28
40	chloroform	0.854	0.798	6.6	105	0.00	9.35
41	tert-butyl formate	0.415	0.265	36.1#	63	0.00	9.39

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-ICV9511
Lab FileID: 2A218793.D

42		isobutyl alcohol	0.033	0.031	6.1	94	0.00	9.75
43	S	dibromofluoromethane (s)	0.471	0.466	1.1	102	0.00	9.54
44		methacrylonitrile	0.196	0.206	-5.1	110	0.00	9.17
45		1,1,1-trichloroethane	0.742	0.738	0.5	106	0.00	9.60
46		cyclohexane	0.620	0.638	-2.9	107	0.00	9.72
47		1,1-dichloropropene	0.597	0.591	1.0	108	0.00	9.78
48		tert-amyl alcohol	0.033	0.030	9.1	105	0.00	9.91
49		carbon tetrachloride	0.669	0.674	-0.7	107	0.00	9.80
50	I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	10.44
51	S	1,2-dichloroethane-d4 (s)	0.465	0.462	0.6	104	0.00	9.95
52		2,2,4-trimethylpentane	1.405	1.362	3.1	105	0.00	10.12
53		tert-amyl methyl ether	1.030	0.929	9.8	98	0.00	10.11
54		n-butyl alcohol	0.013	0.014	-7.7	107	0.00	10.50
55		benzene	1.186	1.184	0.2	106	0.00	10.02
56		heptane	0.287	0.310	-8.0	113	0.00	10.28
57		isopropyl acetate	0.074	0.076	-2.7	112	0.00	9.94
58		1,2-dichloroethane	0.557	0.532	4.5	106	0.00	10.04
59		trichloroethene	0.339	0.337	0.6	106	0.00	10.74
60		ethyl acrylate	0.539	0.551	-2.2	104	0.00	10.74
61		2-nitropropane	0.142	0.149	-4.9	107	0.00	11.50
		----------	True	Calc.	% Drift			----------
62		2-chloroethyl vinyl ether	250.000	230.489	7.8	103	0.00	11.54
		----------	AvgRF	CCRF	% Dev			----------
63		methyl methacrylate	0.085	0.091	-7.1	107	0.00	11.01
64		1,2-dichloropropane	0.352	0.346	1.7	105	0.00	11.03
65		methylcyclohexane	0.555	0.566	-2.0	110	0.00	11.04
66		dibromomethane	0.231	0.223	3.5	107	0.00	11.14
67		bromodichloromethane	0.478	0.477	0.2	106	0.00	11.30
68		epichlorohydrin	0.042	0.042	0.0	100	0.00	11.62
69		cis-1,3-dichloropropene	0.524	0.536	-2.3	105	0.00	11.75
70		4-methyl-2-pentanone	0.166	0.167	-0.6	105	0.00	11.86
71		3-methyl-1-butanol	0.010	0.011	-10.0	108	0.00	11.87
72	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.56
73	S	toluene-d8 (s)	1.225	1.239	-1.1	104	0.00	12.06
74		toluene	0.794	0.802	-1.0	107	0.00	12.14
75		trans-1,3-dichloropropene	0.527	0.544	-3.2	104	0.00	12.32
76		ethyl methacrylate	0.452	0.479	-6.0	104	0.00	12.31
77		1,1,2-trichloroethane	0.273	0.277	-1.5	105	0.00	12.54
78		2-hexanone	0.166	0.171	-3.0	105	0.00	12.71
79		tetrachloroethene	0.395	0.387	2.0	106	0.00	12.68
80		1,3-dichloropropane	0.524	0.510	2.7	104	0.00	12.72
81		butyl acetate	0.285	0.313	-9.8	111	0.00	12.79
82		dibromochloromethane	0.399	0.417	-4.5	106	0.00	12.96
83		1,2-dibromoethane	0.338	0.355	-5.0	107	0.00	13.11
84		n-butyl ether	1.574	1.571	0.2	103	0.00	13.56
85		chlorobenzene	0.866	0.874	-0.9	105	0.00	13.59
86		1,1,1,2-tetrachloroethane	0.348	0.353	-1.4	105	0.00	13.66
87		ethylbenzene	1.489	1.480	0.6	105	0.00	13.66
88		m,p-xylene	0.579	0.587	-1.4	106	0.00	13.78
89		o-xylene	1.216	1.216	0.0	105	0.00	14.18
90		styrene	0.942	0.992	-5.3	106	0.00	14.19
91		n-amyl acetate	0.246	0.256	-4.1	102	0.00	14.22
92		bromoform	0.287	0.307	-7.0	103	0.00	14.41
93		butyl acrylate	0.838	0.930	-11.0	107	0.00	14.01
94		isopropylbenzene	1.450	1.466	-1.1	104	0.00	14.53
95		cis-1,4-dichloro-2-butene	0.156	0.168	-7.7	99	0.00	14.56

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-ICV9511
Lab FileID: 2A218793.D

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	15.89
97	S	4-bromofluorobenzene (s)	0.925	0.927	-0.2	103	0.00	14.72
98		bromobenzene	0.800	0.771	3.6	104	0.00	14.90
99		1,1,2,2-tetrachloroethane	0.850	0.842	0.9	103	0.00	14.80
100		trans-1,4-dichloro-2-bute	0.283	0.311	-9.9	108	0.00	14.83
101		1,2,3-trichloropropane	0.219	0.221	-0.9	106	0.00	14.89
102		n-propylbenzene	3.209	3.206	0.1	105	0.00	14.94
103		2-chlorotoluene	0.699	0.700	-0.1	105	0.00	15.07
104		4-chlorotoluene	2.041	2.030	0.5	105	0.00	15.18
105		1,3,5-trimethylbenzene	2.229	2.245	-0.7	104	0.00	15.10
106		tert-butylbenzene	1.931	1.931	0.0	104	0.00	15.44
107		1,2,4-trimethylbenzene	2.270	2.272	-0.1	104	0.00	15.49
108		sec-butylbenzene	2.879	2.922	-1.5	105	0.00	15.66
109		1,3-dichlorobenzene	1.426	1.418	0.6	105	0.00	15.82
110		p-isopropyltoluene	2.455	2.473	-0.7	104	0.00	15.79
111		benzyl chloride	1.398	1.374	1.7	94	0.00	16.01
112		1,2,3-trimethylbenzene		----------NA----------				
113		1,4-dichlorobenzene	1.483	1.429	3.6	103	0.00	15.91
114		1,2-dichlorobenzene	1.394	1.387	0.5	103	0.00	16.28
115		n-butylbenzene	1.306	1.360	-4.1	105	0.00	16.19
116		1,2-dibromo-3-chloropropa	0.184	0.194	-5.4	101	0.00	17.05
117		1,3,5-trichlorobenzene	1.090	1.117	-2.5	105	0.00	17.24
118		1,2,4-trichlorobenzene	0.937	0.998	-6.5	104	0.00	17.88
119		hexachlorobutadiene	0.482	0.507	-5.2	107	0.00	18.00
120		naphthalene	2.233	2.405	-7.7	103	0.00	18.17
121		1,2,3-trichlorobenzene	0.882	0.930	-5.4	103	0.00	18.40
122		hexachloroethane	0.402	0.449	-11.7	104	0.00	16.58
123		2-methylnaphthalene	1.138	1.249	-9.8	101	0.00	19.41
124		pentafluorobenzene(a)	1.000	1.000	0.0	104	0.00	9.51
125		vinyl bromide		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A218788.D M2A9511.M Mon Aug 01 15:19:15 2022 MS2A

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-ICV9511
Lab FileID: 2A218794.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V2A9511\2A218794.D Vial: 15
Acq On : 31 Jul 2022 11:31 pm Operator: PrashanS
Sample : ICV9511-50 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Aug 01 15:13:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	105	0.00	7.25
2	ethanol		----------NA----------				
3	tertiary butyl alcohol		----------NA----------				
4	1,4-dioxane		----------NA----------				
5 I	pentafluorobenzene	1.000	1.000	0.0	103	0.00	9.51
6	chlorodifluoromethane	0.682	0.809	-18.6	126	0.00	3.99
7	dichlorodifluoromethane		----------NA----------				
8	chloromethane		----------NA----------				
9	vinyl chloride		----------NA----------				
10	1,3-butadiene		----------NA----------				
11	bromomethane		----------NA----------				
12	chloroethane		----------NA----------				
13	trichlorofluoromethane		----------NA----------				
14	ethyl ether		----------NA----------				
15	acrolein		----------NA----------				
16	freon 113		----------NA----------				
17	1,1-dichloroethene		----------NA----------				
18	acetone		----------NA----------				
19	acetonitrile	0.079	0.072	8.9	96	0.00	7.02
20	iodomethane		----------NA----------				
21	carbon disulfide		----------NA----------				
22	methylene chloride		----------NA----------				
23	methyl acetate		----------NA----------				
24	methyl tert butyl ether		----------NA----------				
25	trans-1,2-dichloroethene		----------NA----------				
26	hexane		----------NA----------				
27	di-isopropyl ether		----------NA----------				
28	ethyl tert-butyl ether		----------NA----------				
29	2-butanone		----------NA----------				
30	1,1-dichloroethane		----------NA----------				
31	chloroprene		----------NA----------				
32	acrylonitrile	0.212	0.173	18.4	82	0.00	7.59
33	vinyl acetate		----------NA----------				
34	ethyl acetate		----------NA----------				
35	2,2-dichloropropane		----------NA----------				
36	cis-1,2-dichloroethene		----------NA----------				
37	propionitrile		----------NA----------				
38	bromochloromethane		----------NA----------				
39	tetrahydrofuran		----------NA----------				
40	chloroform		----------NA----------				
41	tert-butyl formate		----------NA----------				

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-ICV9511
Lab FileID: 2A218794.D

42		isobutyl alcohol		----------NA----------					
43	S	dibromofluoromethane (s)	0.471	0.471	0.0	102	0.00	9.54	
44		methacrylonitrile		----------NA----------					
45		1,1,1-trichloroethane		----------NA----------					
46		cyclohexane		----------NA----------					
47		1,1-dichloropropene		----------NA----------					
48		tert-amyl alcohol		----------NA----------					
49		carbon tetrachloride		----------NA----------					
50	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00	10.44	
51	S	1,2-dichloroethane-d4 (s)	0.465	0.471	-1.3	105	0.00	9.95	
52		2,2,4-trimethylpentane		----------NA----------					
53		tert-amyl methyl ether		----------NA----------					
54		n-butyl alcohol		----------NA----------					
55		benzene		----------NA----------					
56		heptane		----------NA----------					
57		isopropyl acetate		----------NA----------					
58		1,2-dichloroethane		----------NA----------					
59		trichloroethene		----------NA----------					
60		ethyl acrylate		----------NA----------					
61		2-nitropropane		----------NA----------					
		----------	True	Calc.	% Drift	----------			
62		2-chloroethyl vinyl ether		----------NA----------					
		----------	AvgRF	CCRF	% Dev	----------			
63		methyl methacrylate		----------NA----------					
64		1,2-dichloropropane		----------NA----------					
65		methylcyclohexane		----------NA----------					
66		dibromomethane		----------NA----------					
67		bromodichloromethane		----------NA----------					
68		epichlorohydrin		----------NA----------					
69		cis-1,3-dichloropropene		----------NA----------					
70		4-methyl-2-pentanone		----------NA----------					
71		3-methyl-1-butanol		----------NA----------					
72	I	chlorobenzene-d5	1.000	1.000	0.0	102	0.00	13.56	
73	S	toluene-d8 (s)	1.225	1.230	-0.4	102	0.00	12.06	
74		toluene		----------NA----------					
75		trans-1,3-dichloropropene		----------NA----------					
76		ethyl methacrylate		----------NA----------					
77		1,1,2-trichloroethane		----------NA----------					
78		2-hexanone		----------NA----------					
79		tetrachloroethene	0.395	0.356	9.9	96	0.00	12.68	
80		1,3-dichloropropane		----------NA----------					
81		butyl acetate		----------NA----------					
82		dibromochloromethane		----------NA----------					
83		1,2-dibromoethane		----------NA----------					
84		n-butyl ether		----------NA----------					
85		chlorobenzene		----------NA----------					
86		1,1,1,2-tetrachloroethane		----------NA----------					
87		ethylbenzene		----------NA----------					
88		m,p-xylene		----------NA----------					
89		o-xylene		----------NA----------					
90		styrene		----------NA----------					
91		n-amyl acetate		----------NA----------					
92		bromoform		----------NA----------					
93		butyl acrylate		----------NA----------					
94		isopropylbenzene		----------NA----------					
95		cis-1,4-dichloro-2-butene		----------NA----------					

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9511-ICV9511
Lab FileID: 2A218794.D

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	15.89
97	S	4-bromofluorobenzene (s)	0.925	0.936	-1.2	102	0.00	14.72
98		bromobenzene		----------NA----------				
99		1,1,2,2-tetrachloroethane		----------NA----------				
100		trans-1,4-dichloro-2-bute		----------NA----------				
101		1,2,3-trichloropropane		----------NA----------				
102		n-propylbenzene		----------NA----------				
103		2-chlorotoluene		----------NA----------				
104		4-chlorotoluene		----------NA----------				
105		1,3,5-trimethylbenzene		----------NA----------				
106		tert-butylbenzene		----------NA----------				
107		1,2,4-trimethylbenzene		----------NA----------				
108		sec-butylbenzene		----------NA----------				
109		1,3-dichlorobenzene		----------NA----------				
110		p-isopropyltoluene		----------NA----------				
111		benzyl chloride		----------NA----------				
112		1,2,3-trimethylbenzene	2.341	2.446	-4.5	108	0.00	15.91
113		1,4-dichlorobenzene		----------NA----------				
114		1,2-dichlorobenzene		----------NA----------				
115		n-butylbenzene		----------NA----------				
116		1,2-dibromo-3-chloropropa		----------NA----------				
117		1,3,5-trichlorobenzene		----------NA----------				
118		1,2,4-trichlorobenzene		----------NA----------				
119		hexachlorobutadiene		----------NA----------				
120		naphthalene		----------NA----------				
121		1,2,3-trichlorobenzene		----------NA----------				
122		hexachloroethane		----------NA----------				
123		2-methylnaphthalene		----------NA----------				
124		pentafluorobenzene(a)	1.000	1.000	0.0	103	0.00	9.51
125		vinyl bromide		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0

2A218788.D M2A9511.M Tue Aug 02 08:48:28 2022 MS2A

Continuing Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9549-CC9511
Lab FileID: 2A219732.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\KI...a9549-rush\2a219732.d Vial: 2
Acq On : 30 Aug 2022 9:48 am Operator: nickw
Sample : cc9511-20 Inst : GCMS2A
Misc : MS61740,V2A9549,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\m2a9511.m (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	116	0.00	7.26
2	ethanol	0.122	0.088	27.9#	87	0.00	5.98
3	tertiary butyl alcohol	1.228	1.175	4.3	117	0.00	7.36
4	1,4-dioxane	0.086	0.085	1.2	117	0.00	11.09
5 I	pentafluorobenzene	1.000	1.000	0.0	120	0.00	9.51
6	chlorodifluoromethane	0.682	0.584	14.4	107	0.00	4.00
7	dichlorodifluoromethane	0.672	0.624	7.1	111	0.00	3.97
8	chloromethane	0.869	0.736	15.3	109	0.01	4.36
9	vinyl chloride	0.665	0.627	5.7	117	0.00	4.58
10	1,3-butadiene	0.592	0.580	2.0	122	0.00	4.62
11	bromomethane	0.392	0.333	15.1	110	0.01	5.21
12	chloroethane	0.315	0.287	8.9	113	0.00	5.36
13	trichlorofluoromethane	0.745	0.663	11.0	107	0.02	5.81
14	ethyl ether	0.237	0.225	5.1	117	0.00	6.19
15	acrolein	0.106	0.073	31.1#	89	0.01	6.42
16	freon 113	0.354	0.323	8.8	117	0.00	6.61
17	1,1-dichloroethene	0.371	0.337	9.2	114	0.00	6.60
18	acetone	0.192	0.152	20.8#	101	0.00	6.61
19	acetonitrile	0.079	0.063	20.3#	99	0.01	7.03
20	iodomethane	0.724	0.663	8.4	115	0.01	6.86
21	carbon disulfide	1.229	1.125	8.5	115	0.01	6.99
22	methylene chloride	0.440	0.397	9.8	118	0.00	7.30
23	methyl acetate	0.479	0.392	18.2	100	0.00	7.07
24	methyl tert butyl ether	1.323	1.193	9.8	114	0.00	7.66
25	trans-1,2-dichloroethene	0.420	0.378	10.0	116	0.01	7.69
26	hexane	0.747	0.725	2.9	121	0.00	8.05
27	di-isopropyl ether	1.831	1.619	11.6	109	0.00	8.25
28	ethyl tert-butyl ether	1.594	1.506	5.5	117	0.00	8.71
29	2-butanone	0.052	0.050	3.8	118	0.00	8.91
30	1,1-dichloroethane	0.822	0.742	9.7	114	0.00	8.26
31	chloroprene	0.781	0.693	11.3	108	0.00	8.36
32	acrylonitrile	0.212	0.173	18.4	98	0.00	7.60
33	vinyl acetate	0.078	0.080	-2.6	127	0.01	8.21
34	ethyl acetate	0.096	0.083	13.5	108	0.00	8.93
35	2,2-dichloropropane	0.657	0.632	3.8	127	0.00	9.00
36	cis-1,2-dichloroethene	0.462	0.430	6.9	120	0.00	8.98
37	propionitrile	0.079	0.072	8.9	111	0.00	8.98
38	bromochloromethane	0.307	0.289	5.9	117	0.00	9.26
39	tetrahydrofuran	0.219	0.165	24.7#	100	0.00	9.29
40	chloroform	0.854	0.743	13.0	115	0.00	9.35
41	tert-butyl formate	0.415	0.333	19.8	96	0.00	9.39

Continuing Calibration Summary

Job Number: JD50363 **Sample:** V2A9549-CC9511
Account: FLSNYNY Fleming-Lee Shue, Inc. **Lab FileID:** 2A219732.D
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

42		isobutyl alcohol	0.033	0.025	24.2#	98	0.00	9.75
43	S	dibromofluoromethane (s)	0.471	0.477	-1.3	122	0.00	9.54
44		methacrylonitrile	0.196	0.181	7.7	114	0.00	9.18
45		1,1,1-trichloroethane	0.742	0.674	9.2	113	0.00	9.61
46		cyclohexane	0.620	0.560	9.7	111	0.00	9.72
47		1,1-dichloropropene	0.597	0.543	9.0	115	0.00	9.78
48		tert-amyl alcohol	0.033	0.028	15.2	107	0.01	9.92
49		carbon tetrachloride	0.669	0.617	7.8	117	0.00	9.81
50	I	1,4-difluorobenzene	1.000	1.000	0.0	123	0.00	10.44
51	S	1,2-dichloroethane-d4 (s)	0.465	0.423	9.0	112	0.00	9.96
52		2,2,4-trimethylpentane	1.405	1.335	5.0	119	0.00	10.12
53		tert-amyl methyl ether	1.030	0.949	7.9	119	0.00	10.11
54		n-butyl alcohol	0.013	0.012	7.7	114	0.00	10.50
55		benzene	1.186	1.120	5.6	118	0.00	10.03
56		heptane	0.287	0.262	8.7	114	0.00	10.28
57		isopropyl acetate	0.074	0.070	5.4	122	0.00	9.94
58		1,2-dichloroethane	0.557	0.469	15.8	111	0.00	10.05
59		trichloroethene	0.339	0.307	9.4	118	0.00	10.75
60		ethyl acrylate	0.539	0.489	9.3	111	0.00	10.74
61		2-nitropropane	0.142	0.114	19.7	103	0.00	11.51
			True	Calc.	% Drift			
62		2-chloroethyl vinyl ether	100.000	72.827	27.2#	101	0.00	11.54
			AvgRF	CCRF	% Dev			
63		methyl methacrylate	0.085	0.079	7.1	116	0.00	11.01
64		1,2-dichloropropane	0.352	0.322	8.5	119	0.00	11.04
65		methylcyclohexane	0.555	0.522	5.9	119	0.00	11.05
66		dibromomethane	0.231	0.208	10.0	117	0.00	11.15
67		bromodichloromethane	0.478	0.437	8.6	118	0.00	11.30
68		epichlorohydrin	0.042	0.039	7.1	114	0.00	11.63
69		cis-1,3-dichloropropene	0.524	0.525	-0.2	123	0.00	11.76
70		4-methyl-2-pentanone	0.166	0.155	6.6	118	0.00	11.86
71		3-methyl-1-butanol	0.010	0.010	0.0	121	0.01	11.87
72	I	chlorobenzene-d5	1.000	1.000	0.0	129	0.00	13.56
73	S	toluene-d8 (s)	1.225	1.209	1.3	126	0.00	12.06
74		toluene	0.794	0.744	6.3	124	0.00	12.14
75		trans-1,3-dichloropropene	0.527	0.492	6.6	121	0.00	12.32
76		ethyl methacrylate	0.452	0.433	4.2	118	0.00	12.32
77		1,1,2-trichloroethane	0.273	0.255	6.6	121	0.00	12.54
78		2-hexanone	0.166	0.154	7.2	119	0.00	12.71
79		tetrachloroethene	0.395	0.362	8.4	126	0.00	12.69
80		1,3-dichloropropane	0.524	0.466	11.1	122	0.00	12.72
81		butyl acetate	0.285	0.271	4.9	120	0.00	12.79
82		dibromochloromethane	0.399	0.375	6.0	122	0.00	12.96
83		1,2-dibromoethane	0.338	0.315	6.8	122	0.00	13.12
84		n-butyl ether	1.574	1.510	4.1	122	0.00	13.56
85		chlorobenzene	0.866	0.838	3.2	124	0.00	13.60
86		1,1,1,2-tetrachloroethane	0.348	0.330	5.2	125	0.00	13.66
87		ethylbenzene	1.489	1.416	4.9	124	0.00	13.66
88		m,p-xylene	0.579	0.552	4.7	125	0.00	13.78
89		o-xylene	1.216	1.151	5.3	124	0.00	14.18
90		styrene	0.942	0.916	2.8	123	0.00	14.19
91		n-amyl acetate	0.246	0.250	-1.6	129	0.00	14.23
92		bromoform	0.287	0.281	2.1	127	0.00	14.42
93		butyl acrylate	0.838	0.836	0.2	121	0.00	14.02
94		isopropylbenzene	1.450	1.414	2.5	123	0.00	14.53
95		cis-1,4-dichloro-2-butene	0.156	0.142	9.0	112	0.00	14.56

Continuing Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V2A9549-CC9511
Lab FileID: 2A219732.D

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	129	0.00	15.89
97	S	4-bromofluorobenzene (s)	0.925	0.901	2.6	126	0.00	14.72
98		bromobenzene	0.800	0.725	9.4	124	0.00	14.91
99		1,1,2,2-tetrachloroethane	0.850	0.801	5.8	123	0.00	14.81
100		trans-1,4-dichloro-2-bute	0.283	0.225	20.5#	102	0.00	14.84
101		1,2,3-trichloropropane	0.219	0.194	11.4	117	0.00	14.89
102		n-propylbenzene	3.209	3.129	2.5	125	0.00	14.94
103		2-chlorotoluene	0.699	0.650	7.0	125	0.00	15.07
104		4-chlorotoluene	2.041	1.904	6.7	121	0.00	15.18
105		1,3,5-trimethylbenzene	2.229	2.106	5.5	123	0.00	15.10
106		tert-butylbenzene	1.931	1.835	5.0	126	0.00	15.44
107		1,2,4-trimethylbenzene	2.270	2.157	5.0	122	0.00	15.49
108		sec-butylbenzene	2.879	2.818	2.1	126	0.00	15.66
109		1,3-dichlorobenzene	1.426	1.360	4.6	126	0.00	15.82
110		p-isopropyltoluene	2.455	2.332	5.0	123	0.00	15.79
111		benzyl chloride	1.398	1.559	-11.5	141	0.00	16.01
112		1,2,3-trimethylbenzene	2.341	2.203	5.9	123	0.00	15.92
113		1,4-dichlorobenzene	1.483	1.376	7.2	127	0.00	15.92
114		1,2-dichlorobenzene	1.394	1.331	4.5	124	0.00	16.29
115		n-butylbenzene	1.306	1.272	2.6	125	0.00	16.20
116		1,2-dibromo-3-chloropropa	0.184	0.162	12.0	111	0.00	17.05
117		1,3,5-trichlorobenzene	1.090	1.062	2.6	129	0.00	17.25
118		1,2,4-trichlorobenzene	0.937	0.916	2.2	123	0.00	17.88
119		hexachlorobutadiene	0.482	0.468	2.9	125	0.00	18.00
120		naphthalene	2.233	1.968	11.9	108	0.00	18.17
121		1,2,3-trichlorobenzene	0.882	0.804	8.8	115	0.00	18.40
122		hexachloroethane	0.402	0.387	3.7	120	0.00	16.58
123		2-methylnaphthalene	1.138	0.600	47.3#	69	0.00	19.41
124		pentafluorobenzene(a)	1.000	1.000	0.0	120	0.00	9.51
125		vinyl bromide	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A218787.D m2a9511.m Tue Aug 30 16:06:48 2022

Initial Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-ICC7582
Lab FileID: 3D179860.D

Response Factor Report MS3D

Method : C:\msdchem\1\METHODS\M3D7582.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, Rxi-624 60 m x 0.25 mm xMon Aug 08 17:22:21 2022
Last Update : Mon Aug 08 17:22:21 2022
Response via : Initial Calibration

Calibration Files
1 =3D179855.D 0.5 =3D179854.D 100 =3D179861.D 50 =3D179860.D
20 =3D179859.D 200 =3D179862.D 4 =3D179857.D 2 =3D179856.D
8 =3D179858.D 0.2 =3D179853.D = =

Compound	1	0.5	100	50	20	200	4	2	8	0.2	Avg	%RSD
1) tert butyl alcohol-d9 ----------ISTD----------												
2) tertiary butyl alcohol	1.581	1.526	1.367	1.477	1.401	1.313	1.413	1.591	1.415		1.454	6.63
3) ethanol	0.043		0.046	0.045	0.047	0.035	0.056	0.053	0.047		0.047	13.62
4) 1,4-dioxane			0.039	0.036	0.035	0.031	0.042	0.033	0.032		0.035	11.02
5) I pentafluorobenzene ----------ISTD----------												
6) chlorodifluoromethane	0.955	0.864	0.837	0.918	0.902	0.759	0.919	0.938	0.902	1.047	0.904	8.37
7) dichlorodifluoromethane	1.042	0.925	0.962	1.041	1.028	0.896	0.951	1.051	0.895	1.173	0.996	8.73
8) chloromethane	0.865	0.804	0.726	0.829	0.808	0.703	0.732	0.812	0.724	1.104	0.811	14.35
9) vinyl chloride	0.943	0.931	0.824	0.932	0.923	0.753	0.899	0.874	0.834	1.205	0.912	13.09
10) 1,3-butadiene	1.169	1.187	0.815	0.959	1.014	0.709	1.079	1.056	1.014		1.000	15.58
11) bromomethane			0.311	0.261	0.208		0.167	0.152	0.175		0.212	29.16
----- Quadratic regression ----- Coefficient = 0.9995												
Response Ratio = -0.00262 + 0.19733 *A + 0.05826 *A^2												
12) chloroethane	0.597	0.533	0.487	0.544	0.531	0.468	0.537	0.548	0.503	0.708	0.546	12.35
13) trichlorofluoromethane	1.098	1.106	0.976	1.073	1.084	0.913	1.029	0.982	0.942	1.135	1.034	7.40
14) ethyl ether	0.401	0.322	0.385	0.416	0.406	0.371	0.366	0.410	0.403	0.503	0.398	11.63
15) acrolein	0.120	0.162	0.144	0.148	0.136	0.142	0.135	0.130	0.142		0.140	8.43
16) freon 113	0.440	0.392	0.440	0.468	0.475	0.407	0.463	0.445	0.457	0.418	0.440	6.22
17) 1,1-dichloroethene	0.540	0.546	0.489	0.540	0.537	0.466	0.534	0.491	0.508	0.426	0.508	7.82
18) acetone	0.074	0.061	0.061	0.069	0.070	0.059	0.074	0.075	0.066		0.068	8.71
19) acetonitrile	0.094	0.100	0.072	0.076	0.080	0.067	0.083	0.086	0.078		0.082	13.00
20) iodomethane			0.671	0.642	0.481		0.324	0.285	0.367		0.462	35.72
----- Quadratic regression ----- Coefficient = 0.9961												
Response Ratio = -0.01465 + 0.52968 *A + 0.07932 *A^2												

Initial Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-ICC7582
Lab FileID: 3D179860.D

21) carbon disulfide
2.047 2.228 1.478 1.653 1.714 1.383 1.783 1.891 1.722 1.767 14.91
22) methylene chloride
0.692 0.701 0.582 0.640 0.628 0.563 0.647 0.668 0.620 0.805 0.655 10.47
23) methyl acetate
0.660 0.672 0.543 0.586 0.591 0.518 0.598 0.595 0.591 0.595 8.19
24) methyl tert butyl ether
1.921 1.972 1.764 1.966 1.981 1.612 1.989 1.926 1.920 1.782 1.883 6.58
25) trans-1,2-dichloroethene
0.605 0.550 0.530 0.574 0.585 0.505 0.584 0.582 0.565 0.543 0.562 5.33
26) di-isopropyl ether
2.117 1.940 1.711 1.930 1.976 1.551 2.044 2.082 1.980 2.243 1.957 10.19
27) 2-butanone
0.098 0.086 0.096 0.100 0.100 0.094 0.099 0.092 0.098 0.096 4.90
28) 1,1-dichloroethane
1.206 1.187 0.961 1.087 1.082 0.908 1.114 1.114 1.078 1.191 1.093 8.85
29) chloroprene
0.973 0.899 0.920 1.000 0.987 0.877 1.012 0.997 0.971 1.164 0.980 8.08
30) acrylonitrile
0.252 0.290 0.286 0.303 0.282 0.287 0.271 0.309 0.262 0.283 6.50
31) hexane
0.440 0.535 0.433 0.462 0.447 0.412 0.456 0.450 0.431 0.498 0.456 7.83
32) vinyl acetate
0.173 0.171 0.183 0.173 0.174 0.153 0.184 0.154 0.170 6.88
33) ethyl tert-butyl ether
2.241 1.949 1.968 2.191 2.165 1.817 2.182 2.233 2.160 2.540 2.145 9.25
34) ethyl acetate
0.131 0.099 0.126 0.125 0.136 0.117 0.130 0.146 0.138 0.128 10.66
35) 2,2-dichloropropane
1.014 1.065 0.867 0.958 0.964 0.819 0.989 1.003 0.948 1.104 0.973 8.69
36) cis-1,2-dichloroethene
0.620 0.623 0.586 0.640 0.641 0.563 0.653 0.691 0.645 0.645 0.631 5.67
37) methyl acrylate
0.108 0.117 0.124 0.119 0.118 0.130 0.134 0.116 0.121 6.73
38) propionitrile
0.108 0.099 0.098 0.106 0.107 0.091 0.109 0.108 0.108 0.107 0.104 5.78
39) bromochloromethane
0.324 0.303 0.296 0.313 0.297 0.289 0.314 0.319 0.303 0.274 0.303 4.95
40) tetrahydrofuran
0.237 0.250 0.235 0.228 0.301 0.265 0.253 10.74
41) chloroform
0.800 0.948 0.647 0.702 0.691 0.625 0.724 0.719 0.684 0.727 13.33
42) t-butyl formate *This compound fails Initial Calibration criteria*
0.654 0.623 0.633 0.671 0.647 0.627 0.619 0.656 0.615 0.728 0.647 5.19
43) dibromofluoromethane (s)
0.516 0.518 0.528 0.533 0.516 0.543 0.532 0.517 0.518 0.511 0.523 1.92
44) methacrylonitrile
0.288 0.361 0.321 0.328 0.318 0.316 0.319 0.312 0.312 0.319 5.99
45) 1,1,1-trichloroethane
0.940 1.065 0.920 0.984 0.950 0.886 0.959 0.938 0.914 0.856 0.941 6.04
46) cyclohexane
0.981 0.949 0.893 0.970 0.949 0.860 0.963 0.955 0.880 1.161 0.956 8.66
47) 1,1-dichloropropene
0.811 0.834 0.784 0.852 0.839 0.743 0.834 0.828 0.806 0.892 0.822 4.89
48) iso-butyl alcohol
0.035 0.027 0.028 0.028 0.026 0.036 0.036 0.028 0.030 14.32
49) carbon tetrachloride
0.754 0.724 0.759 0.821 0.788 0.730 0.777 0.778 0.767 0.770 0.767 3.67
50) tert amyl alcohol

```
      0.039       0.032 0.033 0.034 0.031 0.037 0.043 0.033        0.035   11.56

51) I   1,4-difluorobenzene   ----------------ISTD---------------------
52)  1,2-dichloroethane-d4 (s)
      0.396 0.400 0.380 0.385 0.385 0.375 0.398 0.407 0.400 0.401  0.393    2.69
53)  n-butyl alcohol
      0.009 0.009 0.010 0.009 0.010 0.008 0.010 0.008 0.009        0.009#   7.61
54)  2,2,4-trimethylpentane
      1.052 1.169 0.882 0.985 0.969 0.803 1.002 1.045 0.993 1.074  0.997   10.18
55)  benzene
      1.482 1.482 1.249 1.419 1.413 1.123 1.471 1.513 1.411 1.755  1.432   11.57
56)  tert-amyl methyl ether
      0.325 0.249 0.279 0.296 0.288 0.272 0.320 0.300 0.284 0.335  0.295    8.89
57)  heptane
      0.229 0.229 0.236 0.256 0.238 0.227 0.258 0.232 0.234 0.291  0.243    8.20
58)  isopropyl acetate
                  0.111 0.116 0.110 0.107 0.120 0.103 0.102        0.110    5.91
59)  1,2-dichloroethane
      0.620 0.645 0.487 0.528 0.533 0.455 0.585 0.612 0.547        0.557   11.42
60)  trichloroethene
      0.390 0.351 0.356 0.385 0.363 0.342 0.375 0.384 0.364 0.391  0.370    4.70
61)  ethyl acrylate
      0.622 0.592 0.562 0.609 0.590 0.519 0.584 0.593 0.592        0.585    5.09
62)  2-nitropropane
      0.168 0.190 0.156 0.162 0.155 0.157 0.153 0.152 0.155        0.161    7.50
63)  2-chloroethyl vinyl ether
      0.161 0.156 0.218 0.239 0.228 0.194 0.195 0.174 0.210        0.197   14.88
64)  methyl methacrylate
      0.120 0.129 0.128 0.132 0.131 0.122 0.117 0.131 0.132        0.127    4.34
65)  1,2-dichloropropane
      0.381 0.415 0.358 0.393 0.379 0.338 0.389 0.381 0.362 0.391  0.379    5.66
66)  dibromomethane
      0.273 0.282 0.222 0.234 0.225 0.214 0.239 0.233 0.228 0.290  0.244   11.18
67)  methylcyclohexane
      0.641 0.554 0.544 0.590 0.582 0.502 0.571 0.610 0.565 0.610  0.577    6.80
68)  bromodichloromethane
      0.516 0.534 0.496 0.524 0.513 0.474 0.487 0.516 0.492 0.534  0.509    4.01
69)  epichlorohydrin
      0.045 0.051 0.047 0.050 0.048 0.046 0.050 0.049 0.048        0.048    3.73
70)  cis-1,3-dichloropropene
      0.632 0.500 0.598 0.652 0.608 0.568 0.593 0.578 0.580 0.611  0.592    6.94
71)  4-methyl-2-pentanone
      0.205 0.192 0.179 0.199 0.200 0.166 0.207 0.212 0.204 0.212  0.198    7.51
72)  3-methyl-1-butanol
      0.021 0.021 0.019 0.020 0.021 0.017 0.021 0.023 0.020        0.020    7.25

73) I   chlorobenzene-d5      ----------------ISTD---------------------
74)  toluene-d8 (s)
      1.256 1.260 1.171 1.196 1.207 1.168 1.237 1.260 1.229 1.246  1.223    2.90
75)  toluene
      0.957 0.933 0.797 0.884 0.897 0.727 0.888 0.948 0.873 0.999  0.890    8.96
76)  trans-1,3-dichloropropene
      0.492 0.475 0.528 0.560 0.541 0.505 0.511 0.503 0.517 0.488  0.512    5.02
77)  ethyl methacrylate
      0.569 0.533 0.496 0.544 0.540 0.456 0.527 0.572 0.544 0.547  0.533    6.43
78)  1,1,2-trichloroethane
      0.318 0.249 0.259 0.276 0.273 0.248 0.288 0.296 0.263 0.284  0.275    7.95
79)  tetrachloroethene
      0.347 0.322 0.262 0.289 0.288 0.247 0.300 0.298 0.284 0.358  0.299   11.58
80)  1,3-dichloropropane
```

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      0.628 0.581 0.522 0.571 0.581 0.488 0.603 0.613 0.570 0.709  0.587   10.20
 81)  2-hexanone
      0.199 0.223 0.166 0.188 0.193 0.149 0.196 0.208 0.194 0.186  0.190   10.86
 82)  butyl acetate
      0.333 0.319 0.283 0.310 0.311 0.270 0.322 0.320 0.307        0.308    6.43
 83)  dibromochloromethane
      0.316 0.348 0.345 0.366 0.350 0.336 0.331 0.367 0.323 0.448  0.353   10.58
 84)  1,2-dibromoethane
      0.325 0.335 0.326 0.348 0.332 0.312 0.322 0.331 0.325 0.345  0.330    3.28
 85)  n-butyl ether
      1.655 1.475 1.298 1.542 1.612 1.096 1.658 1.706 1.586 1.686  1.532   12.73
 86)  chlorobenzene
      1.019 0.952 0.845 0.939 0.919 0.766 0.955 0.986 0.900 1.085  0.936    9.49
 87)  1,1,1,2-tetrachloroethane
      0.331 0.301 0.300 0.326 0.315 0.287 0.327 0.323 0.313 0.343  0.317    5.35
 88)  ethylbenzene
      1.801 1.743 1.357 1.579 1.670 1.153 1.732 1.813 1.711 1.852  1.641   13.58
 89)  m,p-xylene
      0.665 0.664 0.560 0.639 0.640 0.500 0.661 0.709 0.651 0.625  0.631    9.44
 90)  o-xylene
      0.685 0.638 0.582 0.650 0.636 0.535 0.704 0.702 0.632 0.757  0.652    9.78
 91)  styrene
      1.139 1.072 0.969 1.085 1.113 0.858 1.142 1.111 1.101 1.157  1.075    8.60
 92)  bromoform
      0.250 0.223 0.242 0.249 0.235 0.238 0.221 0.221 0.211 0.222  0.231    5.82
 93)  butyl acrylate
      0.779 0.803 0.765 0.844 0.818 0.686 0.780 0.771 0.780 0.789  0.781    5.25
 94)  n-amyl acetate
      0.348 0.325 0.309 0.338 0.337 0.290 0.318 0.278 0.311        0.317    7.25
 95)  isopropylbenzene
      1.640 1.636 1.402 1.626 1.652 1.194 1.701 1.737 1.644 1.801  1.603   11.03
 96)  cis-1,4-dichloro-2-butene
              0.118 0.111 0.087 0.131 0.065       0.065        0.096   29.11
     ----- Quadratic regression -----                Coefficient =  0.9989
          Response Ratio = -0.00470 + 0.10569 *A + 0.00666 *A^2


 97) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 98)  4-bromofluorobenzene (s)
      1.093 1.087 1.134 1.131 1.089 1.145 1.100 1.090 1.119 1.094  1.108    1.98
 99)  bromobenzene
      0.906 0.970 0.783 0.834 0.801 0.738 0.828 0.787 0.824 0.986  0.846    9.70
100)  1,1,2,2-tetrachloroethane
      0.995 0.892 0.990 1.027 0.962 0.934 0.961 0.945 0.955 1.286  0.995   10.94
101)  trans-1,4-dichloro-2-butene
              0.229 0.211 0.179 0.243 0.143       0.147        0.192   22.15
         ----- Linear regression -----  Coefficient =  0.9968
           Response Ratio = -0.01211 + 0.23852 *A

102)  1,2,3-trichloropropane
      0.306 0.305 0.299 0.318 0.317 0.292 0.299 0.324 0.311 0.269  0.304    5.23
103)  n-propylbenzene
      4.154 4.017 3.444 3.919 3.955 2.949 4.139 4.178 4.021 4.646  3.942   11.60
104)  2-chlorotoluene
      0.856 0.683 0.756 0.808 0.776 0.714 0.791 0.860 0.767 0.921  0.793    8.99
105)  4-chlorotoluene
      0.822 0.754 0.760 0.821 0.798 0.727 0.775 0.786 0.779 0.969  0.799    8.32
106)  1,3,5-trimethylbenzene
      2.892 2.495 2.463 2.745 2.720 2.193 2.751 2.808 2.730 2.528  2.633    7.95
107)  tert-butylbenzene
```

Initial Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-ICC7582
Lab FileID: 3D179860.D

```
       0.573 0.551 0.556 0.599 0.559 0.539 0.597 0.630 0.563 0.669  0.584    6.96
108)  1,2,4-trimethylbenzene
       2.915 2.950 2.514 2.816 2.832 2.236 2.868 2.942 2.888 3.124  2.809    8.98
109)  sec-butylbenzene
       3.184 3.114 2.940 3.270 3.271 2.588 3.275 3.384 3.239 3.532  3.180    8.16
110)  1,3-dichlorobenzene
       1.606 1.445 1.421 1.526 1.502 1.311 1.519 1.476 1.487 1.618  1.491    5.95
111)  p-isopropyltoluene
       2.565 2.593 2.366 2.631 2.650 2.092 2.739 2.602 2.685 2.662  2.559    7.49
112)  1,4-dichlorobenzene
       1.509 1.519 1.379 1.500 1.461 1.291 1.459 1.541 1.442 1.685  1.478    7.01
113)  1,2,3-trimethylbenzene
       2.738 2.574 2.478 2.764 2.750 2.188 2.778 2.828 2.749 3.061  2.691    8.66
114)  benzyl chloride
       1.436 1.400 1.936 2.027 1.839 1.812 1.495 1.420 1.618        1.665   14.56
115)  1,2-dichlorobenzene
       1.483 1.361 1.308 1.411 1.385 1.221 1.432 1.424 1.388 1.602  1.402    7.19
116)  n-butylbenzene
       1.311 1.177 1.305 1.401 1.346 1.196 1.229 1.319 1.263 1.366  1.291    5.71
117)  1,2-dibromo-3-chloropropane
       0.262 0.199 0.262 0.271 0.231 0.263 0.236 0.230 0.237        0.243    9.39
118)  1,3,5-trichlorobenzene
       0.762 0.921 0.889 0.928 0.884 0.821 0.941 0.881 0.869 0.940  0.884    6.39
119)  1,2,4-trichlorobenzene
       0.681 0.664 0.777 0.818 0.755 0.735 0.746 0.728 0.704 0.710  0.732    6.22
120)  hexachlorobutadiene
       0.333 0.322 0.298 0.323 0.297 0.288 0.280 0.300 0.283        0.303    6.20
121)  naphthalene
       2.302 2.134 2.371 2.534 2.442 2.119 2.324 2.250 2.341 2.586  2.340    6.54
122)  1,2,3-trichlorobenzene
       0.643 0.622 0.677 0.713 0.650 0.647 0.651 0.649 0.640 0.644  0.654    3.80
123)  hexachloroethane
       0.254 0.228 0.352 0.341 0.294 0.360 0.265 0.243 0.270        0.290   17.14
124)  2-methylnaphthalene
       0.790 0.889 1.068 1.015 0.845 1.039 0.824 0.782 0.765        0.891   13.35

125)     pentafluorobenzene(a) ----------------ISTD---------------------
126)  Freon 142B
       1.132       0.952 1.043 0.988 0.901 1.118 0.945 0.926        1.001    8.79
127)  allyl chloride
       0.295       0.284 0.308 0.280 0.279 0.269 0.320 0.257        0.287    7.13

128)     1,4-dichlorobenzene-d ----------------ISTD---------------------
129)  pentachloroethane
       0.333       0.416 0.430 0.378 0.426 0.338 0.379 0.344        0.380   10.47
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3D7582.M         Mon Aug 08 17:22:51 2022   3D
```

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-ICV7582
Lab FileID: 3D179865.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V3D7582\3D179865.D Vial: 14
Acq On : 4 Aug 2022 12:59 am Operator: PrashanS
Sample : ICV7582-50 Inst : MS3D
Misc : MS60909,V3D7582,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M3D7582.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, Rxi-624 60 m x 0.25 mm xThu Aug 04 11:24:19 2022
Last Update : Thu Aug 04 11:24:19 2022
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	103	0.00	2.87
2	M	tertiary butyl alcohol	1.454	1.491	-2.5	104	0.00	2.93
3		ethanol	0.047	0.045	4.3	103	0.00	2.32
4	M	1,4-dioxane	0.035	0.035	0.0	102	0.00	5.05
5	I	pentafluorobenzene	1.000	1.000	0.0	103	0.00	4.07
6		chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane	0.996	1.004	-0.8	99	0.00	1.53
8	M	chloromethane	0.811	0.775	4.4	96	0.00	1.67
9	M	vinyl chloride	0.912	0.926	-1.5	102	0.00	1.75
10		1,3-butadiene	1.000	1.075	-7.5	115	0.00	1.78
		----------	True	Calc.	% Drift	----------		
11	M	bromomethane	50.000	64.187	-28.4	137	0.00	1.99
		----------	AvgRF	CCRF	% Dev	----------		
12	M	chloroethane	0.546	0.555	-1.6	105	0.00	2.06
13	M	trichlorofluoromethane	1.034	1.040	-0.6	100	0.00	2.24
14	M	ethyl ether	0.398	0.422	-6.0	104	0.00	2.42
15	M	acrolein	0.140	0.162	-15.7	112	0.00	2.50
16		freon 113	0.440	0.461	-4.8	101	0.00	2.59
17	M	1,1-dichloroethene	0.508	0.536	-5.5	102	0.00	2.59
18	M	acetone	0.068	0.064	5.9	96	0.00	2.59
19	M	acetonitrile	0.082	0.072	12.2	98	0.00	2.76
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane	50.000	49.627	0.7	94	0.00	2.69
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide	1.767	1.653	6.5	103	0.00	2.76
22	M	methylene chloride	0.655	0.627	4.3	101	0.00	2.90
23	M	methyl acetate	0.595	0.628	-5.5	110	0.00	2.79
24	M	methyl tert butyl ether	1.883	1.976	-4.9	103	0.00	3.07
25	M	trans-1,2-dichloroethene	0.562	0.568	-1.1	102	0.00	3.08
26	M	di-isopropyl ether	1.957	1.832	6.4	98	0.00	3.37
27	M	2-butanone	0.096	0.104	-8.3	107	0.00	3.71
28	M	1,1-dichloroethane	1.093	1.063	2.7	101	0.00	3.37
29	M	chloroprene	0.980	1.045	-6.6	107	0.00	3.42
30	M	acrylonitrile	0.283	0.311	-9.9	106	0.00	3.03
31		hexane	0.456	0.486	-6.6	108	0.00	3.26
32	M	vinyl acetate	0.170	0.161	5.3	90	0.00	3.34
33	M	ethyl tert-butyl ether	2.145	2.036	5.1	96	0.00	3.61

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-ICV7582
Lab FileID: 3D179865.D

34	M	ethyl acetate	0.128	0.127	0.8	105	0.00	3.73
35	M	2,2-dichloropropane	0.973	0.907	6.8	97	0.00	3.76
36	M	cis-1,2-dichloroethene	0.631	0.637	-1.0	102	0.00	3.75
37		methyl acrylate	0.121	0.123	-1.7	102	0.00	3.77
38	M	propionitrile	0.104	0.100	3.8	97	0.00	3.75
39	M	bromochloromethane	0.303	0.312	-3.0	102	0.00	3.90
40	M	tetrahydrofuran	0.253	0.243	4.0	100	0.00	3.92
41	M	chloroform	0.727	0.695	4.4	102	0.00	3.96
42	M	t-butyl formate	0.647	0.405	37.4#	62	0.00	3.98
43	S	dibromofluoromethane (s)	0.523	0.521	0.4	101	0.00	4.07
44	M	methacrylonitrile	0.319	0.330	-3.4	104	0.00	3.86
45	M	1,1,1-trichloroethane	0.941	0.975	-3.6	102	0.00	4.11
46		cyclohexane	0.956	0.972	-1.7	103	0.00	4.17
47		1,1-dichloropropene	0.822	0.844	-2.7	102	0.00	4.21
48		iso-butyl alcohol	0.030	0.028	6.7	103	0.00	4.21
49		carbon tetrachloride	0.767	0.809	-5.5	101	0.00	4.22
50		tert amyl alcohol	0.035	0.033	5.7	100	0.00	4.30
51	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00	4.62
52	S	1,2-dichloroethane-d4 (s)	0.393	0.378	3.8	101	0.00	4.31
53	M	n-butyl alcohol	0.009	0.009#	0.0	100	0.00	4.68
54		2,2,4-trimethylpentane	0.997	0.934	6.3	97	0.00	4.43
55	M	benzene	1.432	1.375	4.0	100	0.00	4.35
56	M	tert-amyl methyl ether	0.295	0.271	8.1	94	0.00	4.42
57	M	heptane	0.243	0.258	-6.2	103	0.00	4.54
58	M	isopropyl acetate	0.110	0.115	-4.5	102	0.00	4.32
59	M	1,2-dichloroethane	0.557	0.529	5.0	103	0.00	4.37
60	M	trichloroethene	0.370	0.383	-3.5	102	0.00	4.82
61		ethyl acrylate	0.585	0.595	-1.7	100	0.00	4.84
62	M	2-nitropropane	0.161	0.162	-0.6	103	0.00	5.34
63	M	2-chloroethyl vinyl ether	0.197	0.225	-14.2	97	0.00	5.39
64	M	methyl methacrylate	0.127	0.136	-7.1	106	0.00	5.01
65	M	1,2-dichloropropane	0.379	0.367	3.2	96	0.00	5.00
66	M	dibromomethane	0.244	0.226	7.4	99	0.00	5.07
67	M	methylcyclohexane	0.577	0.585	-1.4	102	0.00	5.01
68	M	bromodichloromethane	0.509	0.523	-2.8	102	0.00	5.19
69		epichlorohydrin	0.048	0.047	2.1	97	0.00	5.43
70	M	cis-1,3-dichloropropene	0.592	0.630	-6.4	99	0.00	5.53
71	M	4-methyl-2-pentanone	0.198	0.199	-0.5	103	0.00	5.63
72	M	3-methyl-1-butanol	0.020	0.020	0.0	103	0.00	5.65
73	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	7.00
74	S	toluene-d8 (s)	1.223	1.176	3.8	101	0.00	5.76
75		toluene	0.890	0.871	2.1	101	0.00	5.82
76		trans-1,3-dichloropropene	0.512	0.560	-9.4	103	0.00	5.98
77		ethyl methacrylate	0.533	0.539	-1.1	102	0.00	6.01
78		1,1,2-trichloroethane	0.275	0.275	0.0	102	0.00	6.15
79	M	tetrachloroethene	0.299	0.288	3.7	102	0.00	6.26
80	M	1,3-dichloropropane	0.587	0.568	3.2	102	0.00	6.29
81		2-hexanone	0.190	0.186	2.1	101	0.00	6.31
82	M	butyl acetate	0.308	0.322	-4.5	107	0.00	6.41
83	M	dibromochloromethane	0.353	0.366	-3.7	103	0.00	6.48
84	M	1,2-dibromoethane	0.330	0.342	-3.6	101	0.00	6.59
85		n-butyl ether	1.532	1.498	2.2	100	0.00	7.09
86	M	chlorobenzene	0.936	0.920	1.7	101	0.00	7.03
87	M	1,1,1,2-tetrachloroethane	0.317	0.322	-1.6	101	0.00	7.10
88	M	ethylbenzene	1.641	1.584	3.5	103	0.00	7.10
89	M	m,p-xylene	0.631	0.632	-0.2	102	0.00	7.22
90	M	o-xylene	0.652	0.646	0.9	102	0.00	7.57
91	M	styrene	1.075	1.081	-0.6	102	0.00	7.59

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-ICV7582
Lab FileID: 3D179865.D

92	M	bromoform	0.231	0.249	-7.8	103	0.00	7.76
93		butyl acrylate	0.781	0.851	-9.0	104	0.00	7.50
94		n-amyl acetate	0.317	0.331	-4.4	101	0.00	7.70
95		isopropylbenzene	1.603	1.610	-0.4	102	0.00	7.91
		----------	True	Calc.	% Drift	----------		
96		cis-1,4-dichloro-2-butene	50.000	49.890	0.2	99	0.00	7.95
		----------	AvgRF	CCRF	% Dev	----------		
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	9.19
98	S	4-bromofluorobenzene (s)	1.108	1.130	-2.0	102	0.00	8.07
99	M	bromobenzene	0.846	0.837	1.1	102	0.00	8.22
100	M	1,1,2,2-tetrachloroethane	0.995	1.043	-4.8	103	0.00	8.18
		----------	True	Calc.	% Drift	----------		
101	M	trans-1,4-dichloro-2-bute	50.000	52.413	-4.8	115	0.00	8.22
		----------	AvgRF	CCRF	% Dev	----------		
102	M	1,2,3-trichloropropane	0.304	0.321	-5.6	103	0.00	8.24
103	M	n-propylbenzene	3.942	3.884	1.5	101	0.00	8.31
104	M	2-chlorotoluene	0.793	0.803	-1.3	101	0.00	8.40
105	M	4-chlorotoluene	0.799	0.807	-1.0	100	0.00	8.51
106	M	1,3,5-trimethylbenzene	2.633	2.754	-4.6	102	0.00	8.48
107	M	tert-butylbenzene	0.584	0.652	-11.6	111	0.00	8.78
108	M	1,2,4-trimethylbenzene	2.809	2.732	2.7	99	0.00	8.84
109	M	sec-butylbenzene	3.180	3.262	-2.6	102	0.00	8.99
110	M	1,3-dichlorobenzene	1.491	1.531	-2.7	102	0.00	9.12
111	M	p-isopropyltoluene	2.559	2.638	-3.1	102	0.00	9.15
112	M	1,4-dichlorobenzene	1.478	1.474	0.3	100	0.00	9.21
113		1,2,3-trimethylbenzene		----------NA----------				
114		benzyl chloride	1.665	1.915	-15.0	96	0.00	9.31
115	M	1,2-dichlorobenzene	1.402	1.420	-1.3	102	0.00	9.56
116	M	n-butylbenzene	1.291	1.376	-6.6	100	0.00	9.54
117	M	1,2-dibromo-3-chloropropa	0.243	0.264	-8.6	99	0.00	10.32
118		1,3,5-trichlorobenzene	0.884	0.937	-6.0	103	0.00	10.52
119	M	1,2,4-trichlorobenzene	0.732	0.802	-9.6	100	0.00	11.15
120	M	hexachlorobutadiene	0.303	0.315	-4.0	99	0.00	11.30
121	M	naphthalene	2.340	2.493	-6.5	100	0.00	11.40
122	M	1,2,3-trichlorobenzene	0.654	0.691	-5.7	99	0.00	11.63
123	m	hexachloroethane	0.290	0.354	-22.1	106	0.00	9.84
124		2-methylnaphthalene	0.891	0.995	-11.7	100	0.00	12.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3D179860.D M3D7582.M Thu Aug 04 11:33:32 2022 3D

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-ICV7582
Lab FileID: 3D179866.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V3D7582\3D179866.D Vial: 15
Acq On : 4 Aug 2022 1:23 am Operator: PrashanS
Sample : ICV7582-50 Inst : MS3D
Misc : MS60909,V3D7582,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M3D7582.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, Rxi-624 60 m x 0.25 mm xThu Aug 04 11:24:19 2022
Last Update : Thu Aug 04 11:24:19 2022
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	128	0.00	2.87
2	M	tertiary butyl alcohol		----------NA----------				
3		ethanol		----------NA----------				
4	M	1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	111	0.00	4.07
6		chlorodifluoromethane	0.904	0.982	-8.6	118	0.00	1.54
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10		1,3-butadiene		----------NA----------				
		----------	True	Calc.	% Drift	----------		
11	M	bromomethane		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
12	M	chloroethane		----------NA----------				
13	M	trichlorofluoromethane		----------NA----------				
14	M	ethyl ether		----------NA----------				
15	M	acrolein		----------NA----------				
16		freon 113		----------NA----------				
17	M	1,1-dichloroethene		----------NA----------				
18	M	acetone		----------NA----------				
19	M	acetonitrile	0.082	0.073	11.0	107	0.00	2.76
		----------	True	Calc.	% Drift	----------		
20	M	iodomethane		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
21	M	carbon disulfide		----------NA----------				
22	M	methylene chloride		----------NA----------				
23	M	methyl acetate		----------NA----------				
24	M	methyl tert butyl ether		----------NA----------				
25	M	trans-1,2-dichloroethene		----------NA----------				
26	M	di-isopropyl ether		----------NA----------				
27	M	2-butanone		----------NA----------				
28	M	1,1-dichloroethane		----------NA----------				
29	M	chloroprene		----------NA----------				
30	M	acrylonitrile	0.283	0.240	15.2	88	0.00	3.03
31		hexane		----------NA----------				
32	M	vinyl acetate		----------NA----------				
33	M	ethyl tert-butyl ether		----------NA----------				

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-ICV7582
Lab FileID: 3D179866.D

34	M	ethyl acetate		----------NA----------				
35	M	2,2-dichloropropane		----------NA----------				
36	M	cis-1,2-dichloroethene		----------NA----------				
37		methyl acrylate		----------NA----------				
38	M	propionitrile		----------NA----------				
39	M	bromochloromethane		----------NA----------				
40	M	tetrahydrofuran		----------NA----------				
41	M	chloroform		----------NA----------				
42	M	t-butyl formate		----------NA----------				
43	S	dibromofluoromethane (s)	0.523	0.523	0.0	109	0.00	4.07
44	M	methacrylonitrile		----------NA----------				
45	M	1,1,1-trichloroethane		----------NA----------				
46		cyclohexane		----------NA----------				
47		1,1-dichloropropene		----------NA----------				
48		iso-butyl alcohol		----------NA----------				
49		carbon tetrachloride		----------NA----------				
50		tert amyl alcohol		----------NA----------				
51	I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	4.62
52	S	1,2-dichloroethane-d4 (s)	0.393	0.400	-1.8	110	0.00	4.31
53	M	n-butyl alcohol		----------NA----------				
54		2,2,4-trimethylpentane		----------NA----------				
55	M	benzene		----------NA----------				
56	M	tert-amyl methyl ether		----------NA----------				
57	M	heptane		----------NA----------				
58	M	isopropyl acetate		----------NA----------				
59	M	1,2-dichloroethane		----------NA----------				
60	M	trichloroethene		----------NA----------				
61		ethyl acrylate		----------NA----------				
62	M	2-nitropropane		----------NA----------				
63	M	2-chloroethyl vinyl ether		----------NA----------				
64	M	methyl methacrylate		----------NA----------				
65	M	1,2-dichloropropane		----------NA----------				
66	M	dibromomethane		----------NA----------				
67	M	methylcyclohexane		----------NA----------				
68	M	bromodichloromethane		----------NA----------				
69		epichlorohydrin		----------NA----------				
70	M	cis-1,3-dichloropropene		----------NA----------				
71	M	4-methyl-2-pentanone		----------NA----------				
72	M	3-methyl-1-butanol		----------NA----------				
73	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	7.00
74	S	toluene-d8 (s)	1.223	1.259	-2.9	106	0.00	5.76
75		toluene		----------NA----------				
76		trans-1,3-dichloropropene		----------NA----------				
77		ethyl methacrylate		----------NA----------				
78		1,1,2-trichloroethane		----------NA----------				
79	M	tetrachloroethene	0.299	0.258	13.7	90	0.00	6.26
80	M	1,3-dichloropropane		----------NA----------				
81		2-hexanone		----------NA----------				
82	M	butyl acetate		----------NA----------				
83	M	dibromochloromethane		----------NA----------				
84	M	1,2-dibromoethane		----------NA----------				
85		n-butyl ether		----------NA----------				
86	M	chlorobenzene		----------NA----------				
87	M	1,1,1,2-tetrachloroethane		----------NA----------				
88	M	ethylbenzene		----------NA----------				
89	M	m,p-xylene		----------NA----------				
90	M	o-xylene		----------NA----------				
91	M	styrene		----------NA----------				

Initial Calibration Verification

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7582-ICV7582
Lab FileID: 3D179866.D

92	M	bromoform			----------NA----------				
93		butyl acrylate			----------NA----------				
94		n-amyl acetate			----------NA----------				
95		isopropylbenzene			----------NA----------				
		----------	True	Calc.	% Drift	----------			
96		cis-1,4-dichloro-2-butene			----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------			
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	9.19	
98	S	4-bromofluorobenzene (s)	1.108	1.097	1.0	103	0.00	8.07	
99	M	bromobenzene			----------NA----------				
100	M	1,1,2,2-tetrachloroethane			----------NA----------				
		----------	True	Calc.	% Drift	----------			
101	M	trans-1,4-dichloro-2-bute			----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------			
102	M	1,2,3-trichloropropane			----------NA----------				
103	M	n-propylbenzene			----------NA----------				
104	M	2-chlorotoluene			----------NA----------				
105	M	4-chlorotoluene			----------NA----------				
106	M	1,3,5-trimethylbenzene			----------NA----------				
107	M	tert-butylbenzene			----------NA----------				
108	M	1,2,4-trimethylbenzene			----------NA----------				
109	M	sec-butylbenzene			----------NA----------				
110	M	1,3-dichlorobenzene			----------NA----------				
111	M	p-isopropyltoluene			----------NA----------				
112	M	1,4-dichlorobenzene			----------NA----------				
113		1,2,3-trimethylbenzene	2.691	2.818	-4.7	109	0.00	9.24	
114		benzyl chloride			----------NA----------				
115	M	1,2-dichlorobenzene			----------NA----------				
116	M	n-butylbenzene			----------NA----------				
117	M	1,2-dibromo-3-chloropropa			----------NA----------				
118		1,3,5-trichlorobenzene			----------NA----------				
119	M	1,2,4-trichlorobenzene			----------NA----------				
120	M	hexachlorobutadiene			----------NA----------				
121	M	naphthalene			----------NA----------				
122	M	1,2,3-trichlorobenzene			----------NA----------				
123	m	hexachloroethane			----------NA----------				
124		2-methylnaphthalene			----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0

3D179860.D M3D7582.M Thu Aug 04 11:36:26 2022 3D

Continuing Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7613-CC7582
Lab FileID: 3D180782.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\da...22\v3d7613\3d180782.d Vial: 52
Acq On : 24 Aug 2022 9:47 pm Operator: nickw
Sample : cc7582-50 Inst : MS3D
Misc : MS61626,V3D7613,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M3D7582.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, Rxi-624 60 m x 0.25 mm xTue Aug 16 09:15:51 2022
Last Update : Tue Aug 16 09:15:51 2022
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	tert butyl alcohol-d9	1.000	1.000	0.0	94	0.00	2.87
2 M	tertiary butyl alcohol	1.454	1.624	-11.7	103	0.00	2.93
3	ethanol	0.047	0.061	-29.8#	126	0.00	2.32
4 M	1,4-dioxane	0.035	0.042	-20.0	110	0.00	5.05
5 I	pentafluorobenzene	1.000	1.000	0.0	88	0.00	4.07
6	chlorodifluoromethane	0.904	0.967	-7.0	92	0.00	1.54
7 M	dichlorodifluoromethane	0.996	0.947	4.9	80	0.00	1.53
8 M	chloromethane	0.811	0.962	-18.6	102	0.00	1.67
9 M	vinyl chloride	0.912	0.996	-9.2	94	0.00	1.75
10	1,3-butadiene	1.000	1.201	-20.1#	110	0.00	1.78
	----------	True	Calc.	% Drift	----------		
11 M	bromomethane	50.000	57.471	-14.9	101	0.00	1.99
	----------	AvgRF	CCRF	% Dev	----------		
12 M	chloroethane	0.546	0.594	-8.8	96	0.00	2.06
13 M	trichlorofluoromethane	1.034	0.933	9.8	76	0.00	2.24
14 M	ethyl ether	0.398	0.423	-6.3	89	0.00	2.42
15 M	acrolein	0.140	0.139	0.7	83	0.00	2.50
16	freon 113	0.440	0.386	12.3	72	0.00	2.59
17 M	1,1-dichloroethene	0.508	0.475	6.5	77	0.00	2.59
18 M	acetone	0.068	0.098	-44.1#	125	0.00	2.59
19 M	acetonitrile	0.082	0.105	-28.0#	122	0.00	2.76
	----------	True	Calc.	% Drift	----------		
20 M	iodomethane	50.000	38.473	23.1#	60	0.00	2.69
	----------	AvgRF	CCRF	% Dev	----------		
21 M	carbon disulfide	1.767	1.594	9.8	85	0.00	2.75
22 M	methylene chloride	0.655	0.620	5.3	85	0.00	2.90
23 M	methyl acetate	0.595	0.756	-27.1#	113	0.00	2.79
24 M	methyl tert butyl ether	1.883	1.968	-4.5	88	0.00	3.07
25 M	trans-1,2-dichloroethene	0.562	0.524	6.8	80	0.00	3.08
26 M	di-isopropyl ether	1.957	2.292	-17.1	104	0.00	3.37
27 M	2-butanone	0.096	0.115	-19.8	101	0.00	3.71
28 M	1,1-dichloroethane	1.093	1.117	-2.2	90	0.00	3.36
29 M	chloroprene	0.980	1.049	-7.0	92	0.00	3.42
30 M	acrylonitrile	0.283	0.349	-23.3#	101	0.00	3.03
31	hexane	0.456	0.507	-11.2	96	0.00	3.26
32 M	vinyl acetate	0.170	0.149	12.4	71	0.00	3.34
33 M	ethyl tert-butyl ether	2.145	2.332	-8.7	93	0.00	3.61

Continuing Calibration Summary

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Sample: V3D7613-CC7582
Lab FileID: 3D180782.D

34	M	ethyl acetate	0.128	0.177	-38.3#	124	0.00	3.73
35	M	2,2-dichloropropane	0.973	0.822	15.5	75	0.00	3.75
36	M	cis-1,2-dichloroethene	0.631	0.588	6.8	81	0.00	3.74
37		methyl acrylate	0.121	0.130	-7.4	92	0.00	3.77
38	M	propionitrile	0.104	0.134	-28.8#	111	0.00	3.75
39	M	bromochloromethane	0.303	0.280	7.6	79	0.00	3.90
40	M	tetrahydrofuran	0.253	0.322	-27.3#	113	0.00	3.92
41	M	chloroform	0.727	0.671	7.7	84	0.00	3.96
42	M	t-butyl formate	0.647	0.449	30.6#	59	0.00	3.98
43	S	dibromofluoromethane (s)	0.523	0.514	1.7	85	0.00	4.07
44	M	methacrylonitrile	0.319	0.365	-14.4	98	0.00	3.86
45	M	1,1,1-trichloroethane	0.941	0.862	8.4	77	0.00	4.10
46		cyclohexane	0.956	0.858	10.3	78	0.00	4.17
47		1,1-dichloropropene	0.822	0.815	0.9	84	0.00	4.21
48		iso-butyl alcohol	0.030	0.037	-23.3#	119	0.00	4.21
49		carbon tetrachloride	0.767	0.685	10.7	73	0.00	4.22
50		tert amyl alcohol	0.035	0.042	-20.0	110	0.00	4.30
51	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00	4.62
52	S	1,2-dichloroethane-d4 (s)	0.393	0.444	-13.0	100	0.00	4.31
53	M	n-butyl alcohol	0.009	0.012	-33.3#	113	0.00	4.68
54		2,2,4-trimethylpentane	0.997	1.032	-3.5	91	0.00	4.43
55	M	benzene	1.432	1.384	3.4	85	0.00	4.35
56	M	tert-amyl methyl ether	0.295	0.283	4.1	83	0.00	4.42
57	M	heptane	0.243	0.241	0.8	82	0.00	4.54
58	M	isopropyl acetate	0.110	0.113	-2.7	84	0.00	4.32
59	M	1,2-dichloroethane	0.557	0.571	-2.5	94	0.00	4.37
60	M	trichloroethene	0.370	0.335	9.5	75	0.00	4.82
61		ethyl acrylate	0.585	0.722	-23.4#	103	0.00	4.84
62	M	2-nitropropane	0.161	0.180	-11.8	97	0.00	5.34
63	M	2-chloroethyl vinyl ether	0.197	0.270	-37.1#	98	0.00	5.39
64	M	methyl methacrylate	0.127	0.126	0.8	83	0.00	5.01
65	M	1,2-dichloropropane	0.379	0.429	-13.2	95	0.00	5.01
66	M	dibromomethane	0.244	0.236	3.3	88	0.00	5.07
67	M	methylcyclohexane	0.577	0.555	3.8	82	0.00	5.01
68	M	bromodichloromethane	0.509	0.500	1.8	83	0.00	5.20
69		epichlorohydrin	0.048	0.060	-25.0#	104	0.00	5.43
70	M	cis-1,3-dichloropropene	0.592	0.633	-6.9	84	0.00	5.53
71	M	4-methyl-2-pentanone	0.198	0.239	-20.7#	104	0.00	5.63
72	M	3-methyl-1-butanol	0.020	0.025	-25.0#	110	0.00	5.65
73	I	chlorobenzene-d5	1.000	1.000	0.0	84	0.00	7.00
74	S	toluene-d8 (s)	1.223	1.264	-3.4	89	0.00	5.76
75		toluene	0.890	0.858	3.6	82	0.00	5.82
76		trans-1,3-dichloropropene	0.512	0.563	-10.0	85	0.00	5.98
77		ethyl methacrylate	0.533	0.602	-12.9	93	0.00	6.01
78		1,1,2-trichloroethane	0.275	0.289	-5.1	88	0.00	6.15
79	M	tetrachloroethene	0.299	0.244	18.4	71	0.00	6.26
80	M	1,3-dichloropropane	0.587	0.617	-5.1	91	0.00	6.29
81		2-hexanone	0.190	0.237	-24.7#	106	0.00	6.31
82	M	butyl acetate	0.308	0.378	-22.7#	103	0.00	6.41
83	M	dibromochloromethane	0.353	0.326	7.6	75	0.00	6.48
84	M	1,2-dibromoethane	0.330	0.337	-2.1	82	0.00	6.59
85		n-butyl ether	1.532	1.802	-17.6	98	0.00	7.09
86	M	chlorobenzene	0.936	0.885	5.4	79	0.00	7.03
87	M	1,1,1,2-tetrachloroethane	0.317	0.290	8.5	75	0.00	7.10
88	M	ethylbenzene	1.641	1.571	4.3	84	0.00	7.10
89	M	m,p-xylene	0.631	0.604	4.3	80	0.00	7.22
90	M	o-xylene	0.652	0.624	4.3	81	0.00	7.57
91	M	styrene	1.075	1.069	0.6	83	0.00	7.59

Continuing Calibration Summary

Job Number: JD50363 **Sample:** V3D7613-CC7582
Account: FLSNYNY Fleming-Lee Shue, Inc. **Lab FileID:** 3D180782.D
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

92	M	bromoform	0.231	0.205	11.3	69	0.00	7.76
93		butyl acrylate	0.781	1.002	-28.3#	100	0.00	7.50
94		n-amyl acetate	0.317	0.379	-19.6	94	0.00	7.70
95		isopropylbenzene	1.603	1.540	3.9	80	0.00	7.91
		----------	True	Calc.	% Drift	----------		
96		cis-1,4-dichloro-2-butene	50.000	47.246	5.5	77	0.00	7.95
		----------	AvgRF	CCRF	% Dev	----------		
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	80	0.00	9.19
98	S	4-bromofluorobenzene (s)	1.108	1.184	-6.9	84	0.00	8.07
99	M	bromobenzene	0.846	0.795	6.0	76	0.00	8.22
100	M	1,1,2,2-tetrachloroethane	0.995	1.142	-14.8	89	0.00	8.18
		----------	True	Calc.	% Drift	----------		
101	M	trans-1,4-dichloro-2-bute	50.000	56.360	-12.7	97	0.00	8.22
		----------	AvgRF	CCRF	% Dev	----------		
102	M	1,2,3-trichloropropane	0.304	0.331	-8.9	84	0.00	8.24
103	M	n-propylbenzene	3.942	4.088	-3.7	84	0.00	8.31
104	M	2-chlorotoluene	0.793	0.791	0.3	78	0.00	8.40
105	M	4-chlorotoluene	0.799	0.811	-1.5	79	0.00	8.51
106	M	1,3,5-trimethylbenzene	2.633	2.746	-4.3	80	0.00	8.48
107	M	tert-butylbenzene	0.584	0.559	4.3	75	0.00	8.78
108	M	1,2,4-trimethylbenzene	2.809	2.816	-0.2	80	0.00	8.84
109	M	sec-butylbenzene	3.180	3.288	-3.4	81	0.00	8.99
110	M	1,3-dichlorobenzene	1.491	1.463	1.9	77	0.00	9.12
111	M	p-isopropyltoluene	2.559	2.525	1.3	77	0.00	9.14
112	M	1,4-dichlorobenzene	1.478	1.433	3.0	77	0.00	9.21
113		1,2,3-trimethylbenzene	2.691	2.774	-3.1	80	0.00	9.24
114		benzyl chloride	1.665	1.906	-14.5	75	0.00	9.32
115	M	1,2-dichlorobenzene	1.402	1.379	1.6	78	0.00	9.56
116	M	n-butylbenzene	1.291	1.397	-8.2	80	0.00	9.54
117	M	1,2-dibromo-3-chloropropa	0.243	0.247	-1.6	73	0.00	10.32
118		1,3,5-trichlorobenzene	0.884	0.832	5.9	72	0.00	10.52
119	M	1,2,4-trichlorobenzene	0.732	0.730	0.3	72	0.00	11.15
120	M	hexachlorobutadiene	0.303	0.257	15.2	64	0.00	11.30
121	M	naphthalene	2.340	2.481	-6.0	79	0.00	11.40
122	M	1,2,3-trichlorobenzene	0.654	0.629	3.8	71	0.00	11.63
123	m	hexachloroethane	0.290	0.296	-2.1	70	0.00	9.84
124		2-methylnaphthalene	0.891	0.878	1.5	69	0.00	12.54
125		pentafluorobenzene(a)	1.000	1.000	0.0	83	0.00	4.07
126		Freon 142B		----------NA----------				
127		allyl chloride		----------NA----------				
128		1,4-dichlorobenzene-d4(a)	1.000	1.000	0.0	94	0.00	9.19
129		pentachloroethane		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3D179860.D M3D7582.M Fri Aug 26 19:55:11 2022

Run Sequence Report

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Run ID: V2A9511	**Method:** SW846 8260D	**Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A9511-BFB	2A218780.D	07/31/22 16:50	n/a	BFB Tune
V2A9511-IC9511	2A218781.D	07/31/22 17:23	n/a	Initial cal 0.2
V2A9511-IC9511	2A218782.D	07/31/22 17:51	n/a	Initial cal 0.5
V2A9511-IC9511	2A218783.D	07/31/22 18:19	n/a	Initial cal 1
V2A9511-IC9511	2A218784.D	07/31/22 18:48	n/a	Initial cal 2
V2A9511-IC9511	2A218785.D	07/31/22 19:16	n/a	Initial cal 4
V2A9511-IC9511	2A218786.D	07/31/22 19:44	n/a	Initial cal 8
V2A9511-IC9511	2A218787.D	07/31/22 20:13	n/a	Initial cal 20
V2A9511-ICC9511	2A218788.D	07/31/22 20:41	n/a	Initial cal 50
V2A9511-IC9511	2A218789.D	07/31/22 21:09	n/a	Initial cal 100
V2A9511-IC9511	2A218790.D	07/31/22 21:38	n/a	Initial cal 200
V2A9511-ICV9511	2A218793.D	07/31/22 23:03	n/a	Initial cal verification 50
V2A9511-ICV9511	2A218794.D	07/31/22 23:31	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Run ID: V2A9549	**Method:** SW846 8260D	**Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A9549-BFB	2A219732.D	08/30/22 09:48	n/a	BFB Tune
V2A9549-CC9511	2A219732.D	08/30/22 09:48	n/a	Continuing cal 20
V2A9549-BS	2A219734.D	08/30/22 11:06	n/a	Blank Spike
V2A9549-MB	2A219736.D	08/30/22 12:04	n/a	Method Blank
ZZZZZZ	2A219737.D	08/30/22 12:42	n/a	(unrelated sample)
ZZZZZZ	2A219738.D	08/30/22 13:11	n/a	(unrelated sample)
JD50818-3	2A219739.D	08/30/22 13:41	n/a	(used for QC only; not part of job JD50363)
JD50818-4	2A219740.D	08/30/22 14:11	n/a	(used for QC only; not part of job JD50363)
ZZZZZZ	2A219741.D	08/30/22 14:41	n/a	(unrelated sample)
JD50363-2	2A219742.D	08/30/22 15:11	n/a	EW-0
JD50363-5	2A219743.D	08/30/22 15:42	n/a	EW-0 DUP
ZZZZZZ	2A219744.D	08/30/22 16:12	n/a	(unrelated sample)
ZZZZZZ	2A219745.D	08/30/22 16:42	n/a	(unrelated sample)
ZZZZZZ	2A219746.D	08/30/22 17:13	n/a	(unrelated sample)
JD50818-4DUP	2A219747.D	08/30/22 17:44	n/a	Duplicate
JD50818-3MS	2A219748.D	08/30/22 18:15	n/a	Matrix Spike
ZZZZZZ	2A219750.D	08/30/22 19:16	n/a	(unrelated sample)
ZZZZZZ	2A219751.D	08/30/22 19:46	n/a	(unrelated sample)
ZZZZZZ	2A219752.D	08/30/22 20:16	n/a	(unrelated sample)
ZZZZZZ	2A219753.D	08/30/22 20:47	n/a	(unrelated sample)
ZZZZZZ	2A219754.D	08/30/22 21:16	n/a	(unrelated sample)
ZZZZZZ	2A219755.D	08/30/22 21:46	n/a	(unrelated sample)

Run Sequence Report

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Run ID: V3D7582	**Method:** SW846 8260D	**Instrument ID:** GCMS3D

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V3D7582-BFB	3D179852.D	08/03/22 19:45	n/a	BFB Tune
V3D7582-IC7582	3D179853.D	08/03/22 20:17	n/a	Initial cal 0.2
V3D7582-IC7582	3D179854.D	08/03/22 20:41	n/a	Initial cal 0.5
V3D7582-IC7582	3D179855.D	08/03/22 21:04	n/a	Initial cal 1
V3D7582-IC7582	3D179856.D	08/03/22 21:28	n/a	Initial cal 2
V3D7582-IC7582	3D179857.D	08/03/22 21:51	n/a	Initial cal 4
V3D7582-IC7582	3D179858.D	08/03/22 22:15	n/a	Initial cal 8
V3D7582-IC7582	3D179859.D	08/03/22 22:38	n/a	Initial cal 20
V3D7582-ICC7582	3D179860.D	08/03/22 23:02	n/a	Initial cal 50
V3D7582-IC7582	3D179861.D	08/03/22 23:26	n/a	Initial cal 100
V3D7582-IC7582	3D179862.D	08/03/22 23:49	n/a	Initial cal 200
V3D7582-ICV7582	3D179865.D	08/04/22 00:59	n/a	Initial cal verification 50
V3D7582-ICV7582	3D179866.D	08/04/22 01:23	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD50363
Account: FLSNYNY Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY

Run ID: V3D7613	**Method:** SW846 8260D	**Instrument ID:** GCMS3D

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V3D7613-BFB	3D180782.D	08/24/22 21:47	n/a	BFB Tune
V3D7613-CC7582	3D180782.D	08/24/22 21:47	n/a	Continuing cal 50
V3D7613-BS	3D180784.D	08/24/22 22:34	n/a	Blank Spike
V3D7613-MB	3D180786.D	08/24/22 23:21	n/a	Method Blank
JD50176-22	3D180787.D	08/24/22 23:44	n/a	(used for QC only; not part of job JD50363)
JD50363-3	3D180788.D	08/25/22 00:08	n/a	MW-1
JD50176-22MS	3D180789.D	08/25/22 00:32	n/a	Matrix Spike
JD50176-22MSD	3D180790.D	08/25/22 00:55	n/a	Matrix Spike Duplicate
JD50363-3	3D180791.D	08/25/22 01:19	n/a	MW-1
JD50363-6	3D180792.D	08/25/22 01:42	n/a	FIELD BLANK
JD50363-7	3D180793.D	08/25/22 02:06	n/a	TRIP BLANK
ZZZZZZ	3D180794.D	08/25/22 02:29	n/a	(unrelated sample)
ZZZZZZ	3D180795.D	08/25/22 02:53	n/a	(unrelated sample)
ZZZZZZ	3D180798.D	08/25/22 04:03	n/a	(unrelated sample)
ZZZZZZ	3D180799.D	08/25/22 04:26	n/a	(unrelated sample)
ZZZZZZ	3D180800.D	08/25/22 04:50	n/a	(unrelated sample)
JD50363-2	3D180801.D	08/25/22 05:14	n/a	EW-0
JD50363-4	3D180802.D	08/25/22 05:37	n/a	EW-1X
JD50363-5	3D180803.D	08/25/22 06:00	n/a	EW-0 DUP
ZZZZZZ	3D180804.D	08/25/22 06:24	n/a	(unrelated sample)
ZZZZZZ	3D180805.D	08/25/22 06:47	n/a	(unrelated sample)
ZZZZZZ	3D180806.D	08/25/22 07:11	n/a	(unrelated sample)
ZZZZZZ	3D180807.D	08/25/22 07:34	n/a	(unrelated sample)
JD50363-1	3D180808.D	08/25/22 07:58	n/a	S-8

Appendix B

Well Development Logs

Fleming Lee Shue

Environmental Management & Consulting

158 West 29th Street, 9Fl. , New York, New York 10001

Well Purge Log
Project: AFFCO
Project Location: 361 Walsh Ave., New Windsor, NY

Monitoring Well: S-8 | Well Volume : _____ gal | Initial Depth to Water: 12.27 ft-btc

Date: 8/19/22 | Total Gallons Purged: 3.45 gal | Depth to Product: - ft-btc

Time Pump On: 10:15 | Average Purge Rate: 408.11 mL/min | Total Depth: _____ ft-btc

Time of Sample Collection: 10:40 | Purge Method: peripump | Water Column: _____ ft

Time Pump Off: 10:47 | PID Reading: 0.0 ppm | Well Diameter 2 in

Time	Elapsed Time (min.)	DTW (ft-btc)	Well Volume Purged (gal)	Total Volume Purged (gal)	Temp (˚C)	pH (s.u.)	ORP (mV)	Cond (mS/cm)	Turbidity (NTUs)	D.O. (mg/L)	TDS (g/L)	Sal (ppt)	Color / Odor
10:15	0				28.23	7.85	-49	0.379	179	0.08	0.247	0.2	-
10:20	5				17.92	7.22	-2	0.407	40.6	0.00	0.265	0.2	no color / no odor
10:25	10				17.38	7.08	19	0.445	0.0	0.00	0.290	0.2	no color / no odor
10:30	15				17.25	7.05	26	0.471	0.0	0.00	0.306	0.2	no color / no odor
10:35	20				17.18	7.03	31	0.480	0.0	0.00	0.319	0.2	no color / no odor
10:40	25				17.15	7.03	33	0.491	0.0	0.00	0.322	0.2	no color / no odor

Allowable Fluctuations: 3% | ± 0.1 | ± 10 mV | 3% | 10% if > 5 NTU, 3 rounds if < 5 NTU | 10% if >0.5 mg/L, 3 rounds if < 0.5mg/L

Notes:

ppm = parts per million
min = minutes
DTW = depth to water
ft-btc = feet below top of casing
gal = gallons
T = temperature
˚C= degrees celsius

s.u.=standard units
ORP=oxidation reduction potential
mV=millivolts
Cond=conductivity
mS/cm= milliSiemens per centimeter
NTUs=Nephelemetric Turbidity Units
mg/L = milligrams per liter

mL/min = milliliters per minute
TDS = Total Dissolved Solids
g/L = grams per liter
Sal= Salinity
wc = water column

Notes: duplicate sample collected here.

Well Volume (gal) = 5.8752 * D^2* WC, where D = well diameter (feet)

Well diameter	1"	2"	4"
Multiply wc by	0.041	0.163	0.653

Fleming Lee Shue

Environmental Management & Consulting

158 West 29th Street, 9Fl. , New York, New York 10001

Well Purge Log
Project: AFFCO
Project Location: 361 Walsh Ave., New Windsor, NY

Monitoring Well: EW-1X | Well Volume : _____ gal | Initial Depth to Water: 7.81 ft-btc

Date: 8/19/22 | Total Gallons Purged: 0.38 gal | Depth to Product: - ft-btc

Time Pump On: 9:45 | Average Purge Rate: 119.87 mL/min | Total Depth: _____ ft-btc

Time of Sample Collection: 11:00 | Purge Method: peripump | Water Column: _____ ft

Time Pump Off: 11:07 | PID Reading: 0.0 ppm | Well Diameter 2 in

Time	Elapsed Time (min.)	DTW (ft-btc)	Well Volume Purged (gal)	Total Volume Purged (gal)	Temp (˚C)	pH (s.u.)	ORP (mV)	Cond (mS/cm)	Turbidity (NTUs)	D.O. (mg/L)	TDS (g/L)	Sal (ppt)	Color / Odor
9:45	0				26.74	6.94	55	0.738	159	0.23	0.473	0.4	light brown / no odor
9:50	5				Well ran dry								
Allowable Fluctuations:					3%	± 0.1	± 10 mV	3%	10% if > 5 NTU 3 rounds if < 5 NTU	10% if > 0.5 mg/L 3 rounds if < 0.5mg/L			

Notes:

ppm = parts per million
min = minutes
DTW = depth to water
ft-btc = feet below top of casing
gal = gallons
T = temperature
˚C= degrees celsius

s.u.=standard units
ORP=oxidation reduction potential
mV=millivolts
Cond=conductivity
mS/cm= milliSiemens per centimeter
NTUs=Nephelemetric Turbidity Units
mg/L = milligrams per liter

mL/min = milliliters per minute
TDS = Total Dissolved Solids
g/L = grams per liter
Sal= Salinity
wc = water column

Notes:

Well Volume (gal) = 5.8752 * D^2* WC, where D = well diameter (feet)

Well diameter	1"	2"	4"
Multiply wc by	0.041	0.163	0.653

Fleming Lee Shue

Environmental Management & Consulting

158 West 29th Street, 9Fl. , New York, New York 10001

Well Purge Log
Project: AFFCO
Project Location: 361 Walsh Ave., New Windsor, NY

Monitoring Well:	MW-1	Well Volume :	gal	Initial Depth to Water:	8.51 ft-btc
Date:	8/19/22	Total Gallons Purged:	1.30 gal	Depth to Product:	- ft-btc
Time Pump On:	8:25	Average Purge Rate:	328.07 mL/min	Total Depth:	ft-btc
Time of Sample Collection:	10:00	Purge Method:	peripump	Water Column:	ft
Time Pump Off:	12:10	PID Reading:	1.1 ppm	Well Diameter	2 in

Time	Elapsed Time (min.)	DTW (ft-btc)	Well Volume Purged (gal)	Total Volume Purged (gal)	Temp (˚C)	pH (s.u.)	ORP (mV)	Cond (mS/cm)	Turbidity (NTUs)	D.O. (mg/L)	TDS (g/L)	Sal (ppt)	Color / Odor
8:25	0				21.78	5.95	155	0.668	133.0	1.30	0.428	0.3	no color / no odor
8:30	5				Well ran dry								
Allowable Fluctuations:					3%	± 0.1	± 10 mV	3%	10% if > 5 NTU 3 rounds if < 5 NTU	10% if >0.5 mg/L 3 rounds if < 0.5mg/L			

Notes:

ppm = parts per million
min = minutes
DTW = depth to water
ft-btc = feet below top of casing
gal = gallons
T = temperature
˚C= degrees celsius

s.u.=standard units
ORP=oxidation reduction potential
mV=millivolts
Cond=conductivity
mS/cm= milliSiemens per centimeter
NTUs=Nephelemetric Turbidity Units
mg/L = milligrams per liter

mL/min = milliliters per minute
TDS = Total Dissolved Solids
g/L = grams per liter
Sal= Salinity
wc = water column

Notes:

Well Volume (gal) = 5.8752 * D^2* WC, where D = well diameter (feet)

Well diameter	1"	2"	4"
Multiply wc by	0.041	0.163	0.653

Fleming Lee Shue

Environmental Management & Consulting

158 West 29th Street, 9Fl. , New York, New York 10001

Well Purge Log
Project: AFFCO
Project Location: 361 Walsh Ave., New Windsor, NY

Monitoring Well: EW-0 | Well Volume : | Initial Depth to Water: 11.61 ft-btc

Date: 8/19/22 | Total Gallons Purged: 3.55 | Depth to Product: - ft-btc

Time Pump On: 8:55 | Average Purge Rate: 344.57 | Total Depth: ft-btc

Time of Sample Collection: 9:25 | Purge Method: peripump | Water Column: ft

Time Pump Off: 9:34 | PID Reading: 0.0 | Well Diameter 2 in

Time	Elapsed Time (min.)	DTW (ft-btc)	Well Volume Purged (gal)	Total Volume Purged (gal)	Temp (˚C)	pH (s.u.)	ORP (mV)	Cond (mS/cm)	Turbidity (NTUs)	D.O. (mg/L)	TDS (g/L)	Sal (ppt)	Color / Odor
8:55	0				23.74	6.71	-18	1.690	67.1	0.34	1.100	0.9	no color / no odor
9:00	5				18.68	7.17	-72	1.810	9.0	0.00	1.160	0.9	no color / no odor
9:05	10				19.19	7.36	-77	1.060	15.9	0.00	0.667	0.5	no color / no odor
9:10	15				19.55	7.28	-48	0.887	9.5	0.00	0.567	0.4	no color / no odor
9:15	20				19.52	7.28	-47	0.884	0.0	0.00	0.565	0.4	no color / no odor
9:20	25				19.50	7.29	-52	0.883	0.0	0.00	0.565	0.4	no color / no odor
9:25	30				19.55	7.29	-55	0.885	0.0	0.00	0.566	0.4	no color / no odor
	Allowable Fluctuations:				3%	± 0.1	± 10 mV	3%	10% if > 5 NTU 3 rounds if < 5 NTU	10% if >0.5 mg/L 3 rounds if < 0.5mg/L			

Notes:

ppm = parts per million
min = minutes
DTW = depth to water
ft-btc = feet below top of casing
gal = gallons
T = temperature
˚C= degrees celsius

s.u.=standard units
ORP=oxidation reduction potential
mV=millivolts
Cond=conductivity
mS/cm= milliSiemens per centimeter
NTUs=Nephelemetric Turbidity Units
mg/L = milligrams per liter

mL/min = milliliters per minute
TDS = Total Dissolved Solids
g/L = grams per liter
Sal= Salinity
wc = water column

Notes:

Well Volume (gal) = 5.8752 * D^2* WC, where D = well diameter (feet)

Well diameter	1"	2"	4"
Multiply wc by	0.041	0.163	0.653

Appendix C

Laboratory Report

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Fleming-Lee Shue, Inc.

AFFCO, 361 Walsh Avenue, New Windsor, NY

10000

SGS Job Number: JD50363

Sampling Date: 08/19/22

Report to:

Fleming-Lee Shue, Inc.

steve@flemingleeshue.com

ATTN: Steve Panter

Total number of pages in report: 43

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

September 13, 2022

Mr. Steve Panter
Fleming-Lee Shue, Inc.
158 West 29th Street 9th Floor
New York, NY 10001

Re: SGS North America – Dayton, NJ Jobs # JD50363 – Reissues

Dear Mr. Panter,

The final reports for SGS jobs number JD50363 have been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, additional Ethane and Ethene Compound as RSK-175 Method has been retrieved and reported on R samples. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me at 732-329-0200 if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc

CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

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Sample Summary

Fleming-Lee Shue, Inc.

Job No: JD50363

AFFCO, 361 Walsh Avenue, New Windsor, NY
Project No: 10000

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD50363-1	08/19/22	10:40	BH	08/19/22	AQ	Ground Water	S-8
JD50363-1R	08/19/22	10:40	BH	08/19/22	AQ	Ground Water	S-8
JD50363-2	08/19/22	09:25	BH	08/19/22	AQ	Ground Water	EW-0
JD50363-2R	08/19/22	09:25	BH	08/19/22	AQ	Ground Water	EW-0
JD50363-3	08/19/22	10:00	BH	08/19/22	AQ	Ground Water	MW-1
JD50363-3R	08/19/22	10:00	BH	08/19/22	AQ	Ground Water	MW-1
JD50363-4	08/19/22	11:00	BH	08/19/22	AQ	Ground Water	EW-1X
JD50363-4R	08/19/22	11:00	BH	08/19/22	AQ	Ground Water	EW-1X
JD50363-5	08/19/22	09:25	BH	08/19/22	AQ	Ground Water	EW-0 DUP
JD50363-6	08/19/22	11:30	BH	08/19/22	AQ	Field Blank Water	FIELD BLANK
JD50363-7	08/19/22	11:30	BH	08/19/22	AQ	Trip Blank Water	TRIP BLANK

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Fleming-Lee Shue, Inc.	**Job No**	JD50363
Site:	AFFCO, 361 Walsh Avenue, New Windsor, NY	**Report Date**	9/13/2022 3:22:36 PM

On 08/19/2022, 5 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.9 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD50363 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V2A9549

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD50818-3MS, JD50818-4DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD50363-5: Sample analyzed with head-space vial.

Matrix: AQ **Batch ID:** V3D7613

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD50176-22MS, JD50176-22MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,2-Dichloropropane are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane are outside control limits. Outside control limits due to matrix interference.
- JD50363-2: Dilution required due to high concentration of target compound.
- JD50363-5: Dilution required due to high concentration of target compound.
- JD50363-5 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD50363-2 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD50363-3 for 4-Methyl-2-pentanone(MIBK): Associated CCV outside of control limits high, sample was ND.
- JD50363-4 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD50363-6 for 4-Methyl-2-pentanone(MIBK): Associated CCV outside of control limits high, sample was ND.
- JD50363-4 for 4-Methyl-2-pentanone(MIBK): Associated CCV outside of control limits high, sample was ND.
- JD50363-4 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD50363-7 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD50363-7 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD50363-6 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD50363-7 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD50363-1 for 4-Methyl-2-pentanone(MIBK): Associated CCV outside of control limits high, sample was ND.
- JD50363-1 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD50363-3 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD50363-6 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD50363-7 for 4-Methyl-2-pentanone(MIBK): Associated CCV outside of control limits high, sample was ND.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V3D7613

- JD50363-4 for Acetone: Associated CCV outside of control limits high.
- JD50363-3 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.
- JD50363-1 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD50363-1 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD50363-3 for Acetone: Associated CCV outside of control limits high.
- JD50363-6 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.

GC Volatiles By Method RSK-175

Matrix: AQ **Batch ID:** GAA2622

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50363-3DUP were used as the QC samples indicated.
- JD50363-4R: Dilution required due to high concentration of non-target compound.

Matrix: AQ **Batch ID:** GWW5593

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD50363-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD50363-1: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JD50363-2: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JD50363-3: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
- JD50363-4: (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP34757

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50176-22FSDL, JD50176-22MSD,JD50176-22MS JD50176-22SDL were used as the QC samples for metals.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP42011

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50176-22DUP, JD50176-22MS were used as the QC samples for Sulfate, Chloride.

General Chemistry By Method SM2320 B-11

Matrix: AQ **Batch ID:** GN32581

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50091-16DUP were used as the QC samples for Alkalinity, Total as CaCO3.
- JD50363-3 for Alkalinity, Total as CaCO3: Sample was titrated to a final pH of 4.5.Sample received with head space.
- JD50363-2 for Alkalinity, Total as CaCO3: Sample was titrated to a final pH of 4.5.Sample received with head space.
- JD50363-1 for Alkalinity, Total as CaCO3: Sample was titrated to a final pH of 4.5.Sample received with head space.

General Chemistry By Method SM3500FE B-11

Matrix: AQ **Batch ID:** GN32757

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50363-1MS, JD50363-1MSD were used as the QC samples for Iron, Ferrous.
- JD50363-1 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.
- JD50363-2 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.
- JD50363-3 for Iron, Ferrous: Field analysis required. Received out of hold time and analyzed by request.

General Chemistry By Method SM4500S2- F-11

Matrix: AQ **Batch ID:** GN32669

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD50363-1MS, JD50363-2DUP were used as the QC samples for Sulfide.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD50363
Account: Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY
Collected: 08/19/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD50363-1	S-8					
Chloroethane		2.7	1.0	0.73	ug/l	SW846 8260D
1,1-Dichloroethane		6.3	1.0	0.57	ug/l	SW846 8260D
1,2-Dichloroethane		1.8	1.0	0.60	ug/l	SW846 8260D
1,1-Dichloroethene		5.5	1.0	0.59	ug/l	SW846 8260D
cis-1,2-Dichloroethene		1.0	1.0	0.51	ug/l	SW846 8260D
trans-1,2-Dichloroethene		0.61 J	1.0	0.54	ug/l	SW846 8260D
1,1,1-Trichloroethane		1.2	1.0	0.54	ug/l	SW846 8260D
Trichloroethene		1.2	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		1.3	1.0	0.79	ug/l	SW846 8260D
Methane		63.9	0.11	0.080	ug/l	RSK-175
Carbon Dioxide [a]		3870	250	8.9	ug/l	RSK-175
Iron		3200	100		ug/l	SW846 6010D
Alkalinity, Total as CaCO3 [b]		432	5.0		mg/l	SM2320 B-11
Chloride		97.3	2.0		mg/l	EPA 300/SW846 9056A
Sulfate		16.0	2.0		mg/l	EPA 300/SW846 9056A
JD50363-1R	S-8					
No hits reported in this sample.						
JD50363-2	EW-0					
Chloroethane		5250	100	73	ug/l	SW846 8260D
1,1-Dichloroethane		5680	100	57	ug/l	SW846 8260D
1,2-Dichloroethane [c]		46.2	20	12	ug/l	SW846 8260D
1,1-Dichloroethene [c]		90.9	20	12	ug/l	SW846 8260D
Toluene [c]		11.9 J	20	11	ug/l	SW846 8260D
1,1,1-Trichloroethane [c]		3200	20	11	ug/l	SW846 8260D
Vinyl chloride [c]		64.5	20	16	ug/l	SW846 8260D
Methane		395	0.55	0.40	ug/l	RSK-175
Carbon Dioxide [a]		3980	50	1.8	ug/l	RSK-175
Iron		6720	100		ug/l	SW846 6010D
Alkalinity, Total as CaCO3 [b]		187	5.0		mg/l	SM2320 B-11
Chloride		193	2.0		mg/l	EPA 300/SW846 9056A
Sulfate		8.1	2.0		mg/l	EPA 300/SW846 9056A
JD50363-2R	EW-0					
Ethane		8.19	0.23	0.14	ug/l	RSK-175
Ethene		10.1	0.31	0.16	ug/l	RSK-175

Summary of Hits

Job Number: JD50363
Account: Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY
Collected: 08/19/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD50363-3	MW-1					
Acetone [d]		8.0 J	10	3.1	ug/l	SW846 8260D
Carbon disulfide		0.74 J	2.0	0.46	ug/l	SW846 8260D
Chloroethane		344	10	7.3	ug/l	SW846 8260D
Chloroform		0.87 J	1.0	0.50	ug/l	SW846 8260D
1,1-Dichloroethane		101	1.0	0.57	ug/l	SW846 8260D
1,2-Dichloroethane		2.3	1.0	0.60	ug/l	SW846 8260D
1,1-Dichloroethene		1.1	1.0	0.59	ug/l	SW846 8260D
cis-1,2-Dichloroethene		0.74 J	1.0	0.51	ug/l	SW846 8260D
trans-1,2-Dichloroethene		0.67 J	1.0	0.54	ug/l	SW846 8260D
1,1,1-Trichloroethane		63.8	1.0	0.54	ug/l	SW846 8260D
Trichloroethene		0.66 J	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		2.1	1.0	0.79	ug/l	SW846 8260D
Methane		3430	5.5	4.0	ug/l	RSK-175
Carbon Dioxide [a]		7340	50	1.8	ug/l	RSK-175
Iron		12000	100		ug/l	SW846 6010D
Alkalinity, Total as CaCO3 [b]		192	5.0		mg/l	SM2320 B-11
Chloride		118	2.0		mg/l	EPA 300/SW846 9056A
Sulfate		2.0	2.0		mg/l	EPA 300/SW846 9056A
JD50363-3R	MW-1					
Ethane		15.3	0.23	0.14	ug/l	RSK-175
JD50363-4	EW-1X					
Acetone [d]		5.7 J	10	3.1	ug/l	SW846 8260D
Chloroethane		82.4	1.0	0.73	ug/l	SW846 8260D
1,1-Dichloroethane		32.9	1.0	0.57	ug/l	SW846 8260D
1,2-Dichloroethane		0.72 J	1.0	0.60	ug/l	SW846 8260D
1,1-Dichloroethene		3.1	1.0	0.59	ug/l	SW846 8260D
cis-1,2-Dichloroethene		0.79 J	1.0	0.51	ug/l	SW846 8260D
1,4-Dioxane		49.1 J	130	19	ug/l	SW846 8260D
1,1,1-Trichloroethane		47.1	1.0	0.54	ug/l	SW846 8260D
Vinyl chloride		3.2	1.0	0.79	ug/l	SW846 8260D
Methane		2290	5.5	4.0	ug/l	RSK-175
Carbon Dioxide [a]		7230	50	1.8	ug/l	RSK-175
JD50363-4R	EW-1X					

No hits reported in this sample.

Summary of Hits

Job Number: JD50363
Account: Fleming-Lee Shue, Inc.
Project: AFFCO, 361 Walsh Avenue, New Windsor, NY
Collected: 08/19/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD50363-5	EW-0 DUP					
Chloroethane [e]		5400	100	73	ug/l	SW846 8260D
1,1-Dichloroethane [e]		5930	100	57	ug/l	SW846 8260D
1,2-Dichloroethane [c]		46.3	20	12	ug/l	SW846 8260D
1,1-Dichloroethene [c]		83.8	20	12	ug/l	SW846 8260D
Toluene [c]		11.7 J	20	11	ug/l	SW846 8260D
1,1,1-Trichloroethane [c]		3120	20	11	ug/l	SW846 8260D
Vinyl chloride [c]		62.1	20	16	ug/l	SW846 8260D
JD50363-6	FIELD BLANK					
No hits reported in this sample.						
JD50363-7	TRIP BLANK					
No hits reported in this sample.						

(a) (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
(b) Sample was titrated to a final pH of 4.5.Sample received with head space.
(c) Dilution required due to high concentration of target compound.
(d) Associated CCV outside of control limits high.
(e) Sample analyzed with head-space vial.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	S-8		
Lab Sample ID:	JD50363-1	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D180808.D	1	08/25/22 07:58	NW	n/a	n/a	V3D7613
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	2.7	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	6.3	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	1.8	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	5.5	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.0	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.61	1.0	0.54	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-8		
Lab Sample ID:	JD50363-1	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone [a]	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate [a]	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK [a]	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	1.2	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	1.2	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	1.3	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	118%		80-120%
2037-26-5	Toluene-D8	110%		80-120%
460-00-4	4-Bromofluorobenzene	105%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-8		
Lab Sample ID:	JD50363-1	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	RSK-175	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA96559.D	1	08/23/22 16:13	JN	n/a	n/a	GAA2622
Run #2 [a]	WW142257.D	5	08/25/22 13:54	MJ	n/a	n/a	GWW5593

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	63.9	0.11	0.080	ug/l	
124-38-9	Carbon Dioxide	3870 [b]	250	8.9	ug/l	

(a) (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-8		
Lab Sample ID:	JD50363-1	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
		Percent Solids:	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	3200	100	ug/l	1	08/24/22	08/25/22	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA52903
(2) Prep QC Batch: MP34757

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S-8		
Lab Sample ID:	JD50363-1	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
		Percent Solids:	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3 [a]	432	5.0	mg/l	1	08/22/22 13:50	MT	SM2320 B-11
Chloride	97.3	2.0	mg/l	1	08/26/22 14:52	JD	EPA 300/SW846 9056A
Iron, Ferrous [b]	<0.20	0.20	mg/l	1	08/25/22 17:38	JOO	SM3500FE B-11
Sulfate	16.0	2.0	mg/l	1	08/26/22 14:52	JD	EPA 300/SW846 9056A
Sulfide	<2.0	2.0	mg/l	1	08/23/22 18:32	MP	SM4500S2- F-11

(a) Sample was titrated to a final pH of 4.5.Sample received with head space.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S-8		
Lab Sample ID:	JD50363-1R	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	RSK-175	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA96559R.D	1	08/23/22 16:13	JN	n/a	n/a	GAA2622
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-84-0	Ethane	ND	0.23	0.14	ug/l	
74-85-1	Ethene	ND	0.31	0.16	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-0		
Lab Sample ID:	JD50363-2	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3D180801.D	20	08/25/22 05:14	NW	n/a	n/a	V3D7613
Run #2	2A219742.D	100	08/30/22 15:11	NW	n/a	n/a	V2A9549

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	200	61	ug/l	
71-43-2	Benzene	ND	10	8.5	ug/l	
74-97-5	Bromochloromethane	ND	20	9.6	ug/l	
75-27-4	Bromodichloromethane	ND	20	9.0	ug/l	
75-25-2	Bromoform	ND	20	13	ug/l	
74-83-9	Bromomethane	ND	40	33	ug/l	
78-93-3	2-Butanone (MEK)	ND	200	140	ug/l	
75-15-0	Carbon disulfide	ND	40	9.1	ug/l	
56-23-5	Carbon tetrachloride	ND	20	11	ug/l	
108-90-7	Chlorobenzene	ND	20	11	ug/l	
75-00-3	Chloroethane	5250 [c]	100	73	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	15	ug/l	
110-82-7	Cyclohexane	ND	100	16	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	11	ug/l	
124-48-1	Dibromochloromethane	ND	20	11	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	9.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	11	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	11	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	11	ug/l	
75-34-3	1,1-Dichloroethane	5680 [c]	100	57	ug/l	
107-06-2	1,2-Dichloroethane	46.2	20	12	ug/l	
75-35-4	1,1-Dichloroethene	90.9	20	12	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	9.4	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	8.6	ug/l	
123-91-1	1,4-Dioxane	ND	2500	390	ug/l	
100-41-4	Ethylbenzene	ND	20	12	ug/l	
76-13-1	Freon 113	ND	100	12	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-0		
Lab Sample ID:	JD50363-2	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone [b]	ND	100	41	ug/l	
98-82-8	Isopropylbenzene	ND	20	13	ug/l	
79-20-9	Methyl Acetate [b]	ND	100	16	ug/l	
108-87-2	Methylcyclohexane	ND	100	12	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK [b]	ND	100	37	ug/l	
75-09-2	Methylene chloride	ND	40	20	ug/l	
100-42-5	Styrene	ND	20	9.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	13	ug/l	
127-18-4	Tetrachloroethene	ND	20	18	ug/l	
108-88-3	Toluene	11.9	20	11	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	20	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	3200	20	11	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	11	ug/l	
79-01-6	Trichloroethene	ND	20	11	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	8.0	ug/l	
75-01-4	Vinyl chloride	64.5	20	16	ug/l	
	m,p-Xylene	ND	20	16	ug/l	
95-47-6	o-Xylene	ND	20	12	ug/l	
1330-20-7	Xylene (total)	ND	20	12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	114%	92%	80-120%
2037-26-5	Toluene-D8	109%	98%	80-120%
460-00-4	4-Bromofluorobenzene	107%	96%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-0		
Lab Sample ID:	JD50363-2	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	RSK-175	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW142260.D	1	08/25/22 14:39	MJ	n/a	n/a	GWW5593
Run #2	AA96561.D	5	08/23/22 16:41	JN	n/a	n/a	GAA2622

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	395 [b]	0.55	0.40	ug/l	
124-38-9	Carbon Dioxide	3980	50	1.8	ug/l	

(a) (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-0		
Lab Sample ID:	JD50363-2	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
		Percent Solids:	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	6720	100	ug/l	1	08/24/22	08/25/22	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA52903
(2) Prep QC Batch: MP34757

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EW-0		
Lab Sample ID:	JD50363-2	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
		Percent Solids:	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3 [a]	187	5.0	mg/l	1	08/22/22 13:50	MT	SM2320 B-11
Chloride	193	2.0	mg/l	1	08/26/22 15:05	JD	EPA 300/SW846 9056A
Iron, Ferrous [b]	<0.20	0.20	mg/l	1	08/25/22 17:38	JOO	SM3500FE B-11
Sulfate	8.1	2.0	mg/l	1	08/26/22 15:05	JD	EPA 300/SW846 9056A
Sulfide	<2.0	2.0	mg/l	1	08/23/22 18:32	MP	SM4500S2- F-11

(a) Sample was titrated to a final pH of 4.5.Sample received with head space.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EW-0		
Lab Sample ID:	JD50363-2R	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	RSK-175	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA96560R.D	1	08/23/22 16:26	JN	n/a	n/a	GAA2622
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-84-0	Ethane	8.19	0.23	0.14	ug/l	
74-85-1	Ethene	10.1	0.31	0.16	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JD50363-3	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D180788.D	1	08/25/22 00:08	NW	n/a	n/a	V3D7613
Run #2	3D180791.D	10	08/25/22 01:19	NW	n/a	n/a	V3D7613

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	8.0	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	0.74	2.0	0.46	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	344 [b]	10	7.3	ug/l	
67-66-3	Chloroform	0.87	1.0	0.50	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	101	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	2.3	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	1.1	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.74	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	0.67	1.0	0.54	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JD50363-3	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone [c]	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate [c]	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK [c]	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	63.8	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	0.66	1.0	0.53	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	2.1	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	94%	80-120%
17060-07-0	1,2-Dichloroethane-D4	118%	116%	80-120%
2037-26-5	Toluene-D8	108%	111%	80-120%
460-00-4	4-Bromofluorobenzene	102%	108%	82-114%

(a) Associated CCV outside of control limits high.
(b) Result is from Run# 2
(c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JD50363-3	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	RSK-175	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW142261.D	1	08/25/22 14:53	MJ	n/a	n/a	GWW5593
Run #2	AA96563.D	50	08/23/22 17:08	JN	n/a	n/a	GAA2622

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	3430 [b]	5.5	4.0	ug/l	
124-38-9	Carbon Dioxide	7340	50	1.8	ug/l	

(a) (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JD50363-3	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
		Percent Solids:	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	12000	100	ug/l	1	08/24/22	08/25/22	ND	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA52903
(2) Prep QC Batch: MP34757

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JD50363-3	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
		Percent Solids:	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total as CaCO3 [a]	192	5.0	mg/l	1	08/22/22 14:10	MT	SM2320 B-11
Chloride	118	2.0	mg/l	1	08/26/22 15:44	JD	EPA 300/SW846 9056A
Iron, Ferrous [b]	<0.20	0.20	mg/l	1	08/25/22 17:38	JOO	SM3500FE B-11
Sulfate	2.0	2.0	mg/l	1	08/26/22 15:44	JD	EPA 300/SW846 9056A
Sulfide	<2.0	2.0	mg/l	1	08/23/22 18:32	MP	SM4500S2- F-11

(a) Sample was titrated to a final pH of 4.5.Sample received with head space.
(b) Field analysis required. Received out of hold time and analyzed by request.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JD50363-3R	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	RSK-175	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA96562R.D	1	08/23/22 16:55	JN	n/a	n/a	GAA2622
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-84-0	Ethane	15.3	0.23	0.14	ug/l	
74-85-1	Ethene	ND	0.31	0.16	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-1X		
Lab Sample ID:	JD50363-4	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D180802.D	1	08/25/22 05:37	NW	n/a	n/a	V3D7613
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	5.7	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	82.4	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	32.9	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	0.72	1.0	0.60	ug/l	J
75-35-4	1,1-Dichloroethene	3.1	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.79	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	49.1	130	19	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-1X		
Lab Sample ID:	JD50363-4	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone [b]	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate [b]	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK [b]	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	47.1	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	3.2	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	116%		80-120%
2037-26-5	Toluene-D8	109%		80-120%
460-00-4	4-Bromofluorobenzene	107%		82-114%

(a) Associated CCV outside of control limits high.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-1X		
Lab Sample ID:	JD50363-4	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	RSK-175	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	WW142262.D	1	08/25/22 15:16	MJ	n/a	n/a	GWW5593
Run #2	AA96565.D	50	08/23/22 17:37	JN	n/a	n/a	GAA2622

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	2290 [b]	5.5	4.0	ug/l	
124-38-9	Carbon Dioxide	7230	50	1.8	ug/l	

(a) (pH=7)Sample is not acid preservation per method/client criteria. Sample analyzed within 7 days holding time.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-1X		
Lab Sample ID:	JD50363-4R	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	RSK-175	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA96565R.D	50	08/23/22 17:37	JN	n/a	n/a	GAA2622
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-84-0	Ethane	ND	12	7.0	ug/l	
74-85-1	Ethene	ND	16	8.0	ug/l	

(a) Dilution required due to high concentration of non-target compound.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-0 DUP		
Lab Sample ID:	JD50363-5	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3D180803.D	20	08/25/22 06:00	NW	n/a	n/a	V3D7613
Run #2 [b]	2A219743.D	100	08/30/22 15:42	NW	n/a	n/a	V2A9549

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [c]	ND	200	61	ug/l	
71-43-2	Benzene	ND	10	8.5	ug/l	
74-97-5	Bromochloromethane	ND	20	9.6	ug/l	
75-27-4	Bromodichloromethane	ND	20	9.0	ug/l	
75-25-2	Bromoform	ND	20	13	ug/l	
74-83-9	Bromomethane	ND	40	33	ug/l	
78-93-3	2-Butanone (MEK)	ND	200	140	ug/l	
75-15-0	Carbon disulfide	ND	40	9.1	ug/l	
56-23-5	Carbon tetrachloride	ND	20	11	ug/l	
108-90-7	Chlorobenzene	ND	20	11	ug/l	
75-00-3	Chloroethane	5400 [d]	100	73	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	15	ug/l	
110-82-7	Cyclohexane	ND	100	16	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	11	ug/l	
124-48-1	Dibromochloromethane	ND	20	11	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	9.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	11	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	11	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	11	ug/l	
75-34-3	1,1-Dichloroethane	5930 [d]	100	57	ug/l	
107-06-2	1,2-Dichloroethane	46.3	20	12	ug/l	
75-35-4	1,1-Dichloroethene	83.8	20	12	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	9.4	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	8.6	ug/l	
123-91-1	1,4-Dioxane	ND	2500	390	ug/l	
100-41-4	Ethylbenzene	ND	20	12	ug/l	
76-13-1	Freon 113	ND	100	12	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-0 DUP		
Lab Sample ID:	JD50363-5	**Date Sampled:**	08/19/22
Matrix:	AQ - Ground Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone [c]	ND	100	41	ug/l	
98-82-8	Isopropylbenzene	ND	20	13	ug/l	
79-20-9	Methyl Acetate [c]	ND	100	16	ug/l	
108-87-2	Methylcyclohexane	ND	100	12	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK [c]	ND	100	37	ug/l	
75-09-2	Methylene chloride	ND	40	20	ug/l	
100-42-5	Styrene	ND	20	9.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	13	ug/l	
127-18-4	Tetrachloroethene	ND	20	18	ug/l	
108-88-3	Toluene	11.7	20	11	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	20	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	3120	20	11	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	11	ug/l	
79-01-6	Trichloroethene	ND	20	11	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	8.0	ug/l	
75-01-4	Vinyl chloride	62.1	20	16	ug/l	
	m,p-Xylene	ND	20	16	ug/l	
95-47-6	o-Xylene	ND	20	12	ug/l	
1330-20-7	Xylene (total)	ND	20	12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	114%	93%	80-120%
2037-26-5	Toluene-D8	109%	98%	80-120%
460-00-4	4-Bromofluorobenzene	105%	99%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Sample analyzed with head-space vial.
(c) Associated CCV outside of control limits high, sample was ND.
(d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JD50363-6	**Date Sampled:**	08/19/22
Matrix:	AQ - Field Blank Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D180792.D	1	08/25/22 01:42	NW	n/a	n/a	V3D7613
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JD50363-6	**Date Sampled:**	08/19/22
Matrix:	AQ - Field Blank Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone [a]	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate [a]	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK [a]	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	116%		80-120%
2037-26-5	Toluene-D8	110%		80-120%
460-00-4	4-Bromofluorobenzene	105%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD50363-7	**Date Sampled:**	08/19/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D180793.D	1	08/25/22 02:06	NW	n/a	n/a	V3D7613
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
123-91-1	1,4-Dioxane	ND	130	19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD50363-7	**Date Sampled:**	08/19/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/19/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	AFFCO, 361 Walsh Avenue, New Windsor, NY		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone [a]	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate [a]	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK [a]	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	118%		80-120%
2037-26-5	Toluene-D8	110%		80-120%
460-00-4	4-Bromofluorobenzene	106%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW
FB
TB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

Page 1 of 1

FED-EX Tracking #:
Bottle Order Control #: BC-081522-132
SGS Quote #:
SGS Job #: JD50363

Client / Reporting Information
Company Name: Fleming Lee Shue
Street Address: 158 W. 29th St.
City: NYC State: NY Zip: 10001
Project Contact: S.Panter E-mail: steve@flemingleeshue.com
Phone #: 212-675-3225
Sampler(s) Name(s): B.Hess Phone #:

Project Information
Project Name: AFFCO GW Sampling
Street: 361 Walsh Avenue
City: New Windsor State: NY
Project #: 10000
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis: V8260TCLL, VRSKIT5CO2, VRSKIT5CH4, Fe-MET-SW846, SO4, CHL, FE2, ALK, S

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL- Sludge, SED-Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB - Field Blank, EB-Equipment Blank, RB - Rinse Blank, TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	V8260TCLL	VRSKIT5CO2	VRSKIT5CH4	Fe-MET-SW846	SO4, CHL, FE2	ALK	S	LAB USE ONLY
1	S-8		8/19/22	10:40	BJH	G	N	GW	13	6	2	1		4				X	X	X	X	X	X	X	AB
2	EW-0		↓	9:25	↓	↓	↓	↓	13	6	2	1		4				X	X	X	X	X	X	X	G13
3	MW-1		↓	10:00	↓	↓	↓	↓	13	6	2	1		4				X	X	X	X	X	X	X	V396
4	EW-1X		↓	11:00	↓	↓	↓	↓	8	6				2				X	X	X					
5	EW-0 DUP		↓	9:25	↓	↓	↓	↓	3	3								X							
6	Field Blank		↓	11:30	↓	↓	↓	FB	2	2								X							
7	Trip Blank		8/17/22	7:00	-	-	-	TB	2	2								X							

pH Check (Lab Use Only)

Turn Around Time (Business Days)
- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

Approved By (SGS PM): / Date:

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] MA MCP Criteria______
- [ ] CT RCP Criteria______
- [ ] State Forms
- [ ] EDD Format ________
- [ ] DOD-QSM5

Commercial "A" = Results only, Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 B.Hess	8/19/22 13:30	1 [signature]	2 [signature]	8/19/22 1354	2
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact ☐ Absent	Therm ID: On Ice ☒ Cooler Temp. °C 2.3 See Sample Receipt Summary

JD50363: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD50363 **Client:** FLEMING-LEE SHUE, INC. **Project:** AFFCO, 361 WALSH AVENUE, NEW WIN

Date / Time Received: 8/19/2022 3:54:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (2.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Job Change Order: JD50363

Requested Date:	9/7/2022	**Received Date:**	8/19/2022
Account Name:	Fleming-Lee Shue, Inc.	**Due Date:**	9/7/2022
Project Description:	AFFCO, 361 Walsh Avenue, New Windsor, NY	**Deliverable:**	NYASPB
C/O Initiated By:	TAMMYM **PM:** TM	**TAT (Days):**	7

==========

Sample #: JD50363-1 through 4

Dept:

TAT: 7

Change:
Relog / retrieve on original job for VRRSK175ETHANE, VGC+ETHENE

==========

Above Changes Per: Steve Panter **Date/Time:** 9/7/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

APPENDIX D

Institutional and Engineering Controls Engineering 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. 336036

Site Name American Felt & Filter Company, Inc.

Site Address: Walsh Avenue Zip Code: 12550
City/Town: New Windsor
County: Orange
Site Acreage: 0.545

Reporting Period: August 02, 2022 to August 02, 2023

	YES	NO
1. Is the information above correct?	X	
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?		X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	
7. Are all ICs in place and functioning as designed?	X	

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. 336036 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
Part of 9-1-69.2	AMERICAN FELT & FILTER	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan O&M Plan IC/EC Plan Site Management Plan

• Landuse restricted to commercial and industrial uses
• Groundwater use restricted
• Compliance with a site management plan
• Periodic Certification of ICs and ECs

Box 4

Description of Engineering Controls

Parcel	Engineering Control
Part of 9-1-69.2	Vapor Mitigation

• Subslab depressurization system operating in piano felt building.

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
X	

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
X	

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. 336036

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 **Scott Pryne** (print name) at **American Felt & Filter Co. (AFFCO)** (print business address),

am certifying as **Owner** (Owner or Remedial Party)

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

Scott H Pryne
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

8/8/2023
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional 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 ARNOLD F. FLEMING (print name) at 158 West 29th ST., NEW YORK, N.Y. 10001 (print business address),

am certifying as a Qualified Environmental Professional for the OWNER (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		8/15/2023