

**Supplemental Site Investigation: 100 River
Street, Springfield, Vermont
SMS #972235**

June 9, 2025



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Title and Approval Page

Document Title

Supplemental Site Investigation: 100 River Street, Springfield, Vermont, SMS #972235

June 9, 2025

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Executive Summary

Stone Environmental, Inc. (Stone) has prepared this Supplemental Site Investigation (SSI) for the former Fellows Gear Shaper Facility located at 100 River Street in Springfield, Vermont (the Site). The SSI was performed on behalf of 100 River Street, LLC (the former property owner) and ICP Springfield SPE, LLC, the current owner of the Site, as part of remedial planning prior to proposed redevelopment of portions of the Site. The approved SSI scope of work was part of an Evaluation of Corrective Action Alternatives (ECAA) designed to support the redevelopment of the Site for mixed use, including health care, commercial spaces, and senior living facilities, which was the goal of a prior redevelopment plan. The objectives of the redevelopment have evolved such that the current redevelopment plan is to create self-storage units in the basement and a portion of the upper floor, and unspecified commercial leases in the remaining upper floor. Ancillary improvements will include installation of new HVAC and bathrooms. The current redevelopment plan is in line with uses described in the approved Partial Corrective Action Plan and its amendments and therefore an ECAA is no longer necessary. The completed SSI scope of work evaluated whether polychlorinated biphenyls (PCBs) are present in paint and substrate in portions of the Site building that have not undergone redevelopment and evaluated the risk of vapor intrusion into the Site building.

The Site is an 8.75-acre parcel, situated in a mixed commercial and residential area in the Central Business District of the City of Springfield. The Site is bound to the northwest by the former Vermont Machine Tool Company (65 Pearl Street), a former machine manufacturing facility. The Black River defines the north and northeast property boundary, except for a narrow strip of land northeast of the Black River that is an asphalt parking lot serving Site patrons. A pedestrian footbridge spans the Black River from the main building to the parking lot. Pearl Street is located southwest of the Site with residences and a machine shop (Gear Works, Inc., 76 Pearl) further southwest. Additional residences and a vacant lot (5 Pearl Street) are southeast of the Site.

The property at 100 River Street consists of a former main production facility and four separate outbuildings. The former main production facility (the main building) measures approximately 255,000 square feet on two stories except for an office area, which is three stories. Most of the property, not covered by the main building, is covered with asphalt which serves as parking for the main building. There are currently four outbuildings associated with the property: the former Boiler House, the so-called “1898 House”, a sanitary sewer pump station owned and operated by the Town of Springfield, and a three-story former Fellows Gear Shaper workforce Cafeteria Building with an attached one-story garage. The third floor of the Cafeteria Building connects to the first floor of the main building by a catwalk that spans above one of the access drives.

The property was originally developed in 1836 and used as a sawmill, wooden doll factory, and carriage painting shop and was developed as a paper mill by 1856. The property use was converted to machine manufacturing by the Fellows Gear Shaper Company who operated at the property from 1896 to 1983. The Jones and Lamson Company used a portion of these facilities to manufacture gun turrets during the World War II era. Prior to renovations and as recently as 2009, the 100 River Street property was primarily used for the storage of equipment, supplies, chemicals and/or documents.

To allow for occupation of the Site main building, various remediation and mitigation activities have occurred since 2009 including demolition of several portions of the building, capping of the floor and walls in several portions of the building, and installation of a sub-slab depressurization system in the Office Area.

Currently, the Office Area of the main building is occupied by the Springfield Medical Center and is used for medical offices. Tenants in other Site areas include the Visiting Nurses Association (VNA) on the ground floor and Vermont Adult Learning on the first floor. Until recently, other lease spaces were occupied by Vermont Beer Shapers (a commercial brewery and tasting room in the northwest end of the main building), a pharmacy (first floor, off of the Great Hall), and a café (first floor northeast section of the main building).

SSI fieldwork was completed between June 23, 2021, and July 9, 2021, in the northern portion of the Site main building to support redevelopment plans that included demolition of this portion of the building¹. Fieldwork consisted of building materials assessment (paint, underlying masonry, and non-porous surfaces) for PCBs; soil vapor assessment for volatile organic compounds (VOCs); and sub-slab soil assessment for PCBs, polycyclic aromatic hydrocarbons (PAHs), metals, and total petroleum hydrocarbons (TPH).

Based on the findings of the SSI, Stone makes the following conclusions:

- PCBs Bulk Products are present as various building material within the northern basement and northern loading dock areas of the main building.
 - Paint on walls within the investigated area contain PCB Bulk Product (EPA Toxic Substances Control Act (TSCA) Division bulk product criteria of 50 milligrams per kilogram [mg/Kg]).
 - PCBs in bulk product paint have diffused into underlying masonry and exceed the TSCA high occupancy walkway criteria of 1 mg/Kg where PCBs in paint are the highest (i.e., beige-grey paint on the first floor with PCB concentrations of 198 mg/Kg).
 - Dust or oil-residue present on the paint in some of the investigated area is PCB-contaminated likely from prior machining operations, but at concentrations below the applicable cleanup level.
 - Non-porous surfaces associated with the northern loading dock elevator contain PCBs that exceed the EPA TSCA division walkway criteria due to former use of PCB-containing lubricating oil.
 - Petroleum hydrocarbons are present in sub-slab soil underlying the northwestern portion (Part B) of the Site building slab.
 - TPH exceeded the US EPA Industrial Regional Screening Level (RSL) for the aliphatic medium hydrocarbon range in one sub-slab soil sample.
 - PAHs and PCBs were not detected above laboratory reporting limits and metals are present in the sub-slab soil at concentrations below regulatory standards.
 - The electrical conduit previously identified within the former Part A machine room (currently the upper parking lot) is potentially present within the northern end of the Site building according to historical drawings.
- Petroleum and chlorinated VOCs are present in sub-slab soil vapor in the north end of the first floor and basement areas of the main building. Petroleum VOCs slightly exceed the non-resident Vapor

¹ Prior redevelopment plans included demolition of the north end of the Site building; demolition is no longer being considered of the main manufacturing building.

Intrusion Standard (VIS) for sub-slab soil gas in both areas and chlorinated VOCs exceed the VIS in the basement area only.

- Naphthalene, 1,1-dichloroethane (1,1-DCA), tetrachlorethylene (PCE), and trichloroethylene (TCE) exceed their respective non-resident VIS.
- The distribution of PCE and TCE in sub-slab soil gas suggest multiple sources may be contributing the contamination including potential upgradient sources.
- The impact to indoor air from sub-slab soil gas, while unknown, is expected to be low given the previously installed vapor barrier and concrete caps.

SSI results of PCB concentrations in Site building materials will be incorporated into an amendment of the Site Partial CAP to support near term redevelopment objectives and an update to the US EPA TSCA Division. Planned corrective actions, as proposed in the 2011 CAP Amendment (Stone, 2011), will achieve regulatory compliance with respect to PCBs in Site building materials.

Stone recommends assessment of indoor air quality to confirm that vapor intrusion is not occurring. A full Site CAP, including areas of concern related to other areas of the Site, will follow further redevelopment planning of relevant areas of the Site.

Supplemental Site Investigation: 100 River Street, Springfield, Vermont, SMS #972235

*Cover Photo:
Northern façade of
100 River Street
Development. Stone
Environmental,
Inc., June 30, 2020*

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1. Introduction

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SSI results of PCB concentrations in Site building materials will be incorporated into an amendment of the Site Partial CAP to support near term redevelopment objectives and an update to the US EPA TSCA Division. A full Site CAP, including areas of concern related to other areas of the Site, will follow further redevelopment planning of relevant areas of the Site.

Assessment of recognized environmental conditions (RECs) associated with the 100 River Street Cafeteria Building were conducted concurrently with this SSI and those results will be addressed in a separate Phase II Environmental Site Assessment (ESA) report.

Contact information for the current property owner is:

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1.1. Site Description

The Site is centered approximately at 43.30140° north latitude and -72.48632° west longitude with elevations ranging between 445 to 439 feet above sea level in the Town of Springfield, Windsor County, Vermont (Figure 1, Appendix A). Figure 2 provides a vicinity map for the Site and Figure 3 is a Site map. The Site is an 8.75-acre parcel located at 100 River Street and is identified with the City of Springfield as Parcel 23-1-25.

The Site is in a mixed commercial and residential area in the Central Business District of the City of Springfield. The Site is bound to the northwest by the former Vermont Machine Tool Company (65 Pearl Street), a former machine manufacturing facility. The Black River defines the north and northeast property boundary, except for a narrow strip of land northeast of the Black River that is an asphalt parking lot serving

patrons of businesses within the Site building. A pedestrian footbridge spans the Black River from the main building to the parking lot. Pearl Street is located southwest of the Site with residences and a machine shop (Gear Works, Inc., 76 Pearl) further southwest. Additional residences and a vacant lot (5 Pearl Street) are southeast of the Site.

The former main production facility, hereafter referred to as the main building, measures approximately 255,000 square feet on two stories except for a portion, hereafter referred to as the Office Area, which is three stories. The Office Area is occupied by the Springfield Medical Center and is used for medical offices. Tenants in other Site areas include the Visiting Nurses Association (VNA) on the ground floor and Vermont Adult Learning on the first floor. Until recently, other lease spaces were occupied by Vermont Beer Shapers (a commercial brewery and tasting room in the northwest end of the main building), a pharmacy (first floor, off of the Great Hall), and a café (first floor northeast section of the main building).

The bulk of the main building comprises two floors: Parts D, E, and O (demolished) on the ground floor at grade with the southeastern Site parking lot and Parts C, F, G (the Great Hall), H, J, and P (demolished) approximately at grade with Pearl Street. Slab-on-grade portions of the manufacturing facility, Parts A (demolished) and B, comprise the western portion of the manufacturing facility and are at grade with Pearl Street. The Office Area of the main building consists of three stories of offices in use as clinic space by the Springfield Health Center, operated by Springfield Medical Care Systems.

Table 1, in Section 1.3, is modified from Stone's report titled *Site Status Report, 100 River Street, Springfield, VT*, dated July 2, 2014, to summarize current uses of the Site by area and current status of proposed remedial activities, as presented in the 100 River Street corrective action plan (CAP; The Johnson Company, 2009b) and subsequent amendments (Stone, 2011). It also provides a summary of ongoing monitoring requirements, as proposed within the August 2012 Monitoring and Maintenance Implementation Plan, submitted by Stone to the US EPA TSCA Division (Stone, 2012).

Most of the property, not covered by the main building, is covered with asphalt which serves as parking for users of the main building. There are currently four outbuildings associated with the property: the former Boiler House (located within the lower parking lot on the east side of the property), the so-called "1898 House" (located immediately adjacent Pearl Street on the west side of the property), a sanitary sewer pump station (located in the southeast corner of the property) owned and operated by the Town of Springfield, and a three story former Fellows Gear Shaper workforce Cafeteria Building with attached one story garage (located along the southern property boundary). The third floor of the Cafeteria Building connects to the first floor of the main building by a catwalk that spans above one of the access drives. Figure 3 (Appendix A) show existing conditions of the main building. The Boiler House, 1898 House, pump house, and Cafeteria Building are shown on Figures 4 and 5 (Appendix A).

Electric service is provided by pole-mounted lines located on Pearl Street. A pad-mounted electrical transformer is located near Part B adjacent to Pearl Street. An electrical room with dry transformers is located between Parts J and NLD. A hydroelectric turbine (Figure 3, Appendix A) powered by water diverted from the Black River provides net-metering to offset the property's electric demand. The turbine is located northeast of Part J where a dam spans the Black River. Fire protection in occupied areas of the main building is by a sprinkler system.

The property is serviced by municipal sanitary sewer that traverses the eastern portion of the property from north to south, following the former Opal Street and terminating at a pump station located at the southeast corner of the property. Manhole access points are located within Part E of the basement of the main plant.

The property is also traversed by sanitary sewer lines from several residential connections along Pearl Street and from the 5 Pearl Street property located due south of the property.

The property formerly used two groundwater production wells. The first well was used for drinking and bathroom fixtures and is located within the building adjacent the northern loading dock. The second well supplied water for the 100 River Street boilers and was located south of the Chip Shed. The second well was abandoned by Stone in September 2010 to reduce the risk of the well serving as a migration pathway for contaminants within the overburden aquifer. The other supply well is occasionally used for irrigation only and is planned for abandonment during CAP activities.

A 15,000-gallon heating fuel underground storage tank (UST), providing fuel for the 100 River Street boilers, was formerly located due south of the Boiler House. This UST was removed in October 2009.

Several previous reports for the Site indicated the presence of floor drains in the subject building and that one or more may potentially discharge to the Black River. With the onset of remedial actions, historical floor drains have been abandoned. A recently installed floor drain within the former Vermont Beer Shapers space was installed to capture overflow and process water from the brewery and discharges to the municipal sewer system. According to Mr. Foster, roof drains discharge to the Black River.

1.2. Site History

The property was originally developed in 1836 and used as a sawmill, wooden doll factory, and carriage painting shop and was developed as a paper mill by 1856. The property use was converted to machine manufacturing by the Fellows Gear Shaper Company who operated at the property from 1896 to 1983. According to available plans for the property, the oldest building was constructed in 1898 along Pearl Street (i.e., the 1898 House).

Additional buildings were constructed at the property between the original structure and the Black River between 1899 and 1953. These buildings were first used to manufacture machines to fabricate gears. In its original configuration, the business utilized a canal that provided waterpower to the older incarnations of the manufacturing facility. A covered bridge spanned the Canal in the area south of the southern loading dock. Prior to 1948, the property was traversed by Opal Street, a now discontinued street that extended from the intersection of Pearl and Morgan Streets, passed under the plant, and beneath the Office Area. Street curb stones are still present and visible within the main building. The footbridge from River Street previously carried vehicles and horse carriage traffic, intersecting with Opal Street beneath the Office Area.

The Jones and Lamson Company used a portion of these facilities to manufacture gun turrets during the World War II era. Machining operations occurred at the property until Fellows Gear Shaper Company moved out of the complex in 1983.

The newest additions to the complex occurred in 1942 and 1953, which included buildings located along the Black River. These buildings were primarily used for office space.

1.2.1.1. Former Occupants

Prior to renovations and as recently as 2009, the 100 River Street property was primarily used for the storage of equipment, supplies, chemicals and/or documents. The following tenants were identified during the Site inspection of the 2008 Phase I ESA performed by URS and through a review of available local records:

- Matrix Chemical - Matrix Chemical operated a laboratory in approximately 1,200 square feet of the southeast portion of the building adjacent to the Black River. Drums of ethyl acetate and containers of

amorphous boron and magnesium oxide addressed to Matrix Chemical were observed in the nearby loading dock. Access to Matrix Chemical was restricted and, therefore, this portion of the building could not be inspected in 2008. A company profile could not be obtained via a search of available records or the Internet.

- Profile Engineering - Profile Engineering performed specialized gear measuring services, operating from a small shop on the first floor of the main building. Profile Engineering measures gears and specializes in refurbishing, maintaining, and updating Fellows Gear Measuring equipment. Profile Engineering had occupied the building from approximately 1989 to 2009.
- Vermont Machine Tool - Vermont Machine Tool, formerly located at the adjoining 65 Pearl Street property, specialized in the remanufacturing, retrofitting, retooling, and modernizing of machine tools. Vermont Machine Tool rented a large portion of the main building for storage of miscellaneous parts and equipment. Some of this equipment contained quantities of cutting oil stored in equipment reservoirs.
- Microcut Laser - Microcut Laser is a stone cutting company specializing in the production of marble countertops and marble etching.
- Dance Factory - A dance studio.
- Acrylic Designs - Manufacturers of acrylic signs and promotional materials for retail sales, marketing companies and restaurants.
- Adult Basic Education - A full service basic adult education center providing educational services, including general educational development (GED), adult diploma programs (ADP), English to speakers of other languages (ESOL), commercial driver's license (CDL), and basic computer instruction.
- VGHG Distribution Center - No information available.
- Northeast Rebuilders - A machine shop for the rebuilding and refurbishing machining tools and equipment cleaning and removal of cutting oils. Based on available records, kerosene was used for cleaning parts.
- Lincoln Street, Inc. - A non-profit to support individuals with developmental disabilities.
- Nevis Imaging Systems - No information available.
- Alpine Screen Works - A screen printing company. No further information was available.

1.3. Previous Environmental Investigations

In 1997, Dufresne-Henry oversaw the removal of four fuel oil USTs at the 100 River Street property. Soil and groundwater samples collected following the removal of the USTs identified elevated concentrations of total petroleum hydrocarbons (TPH), ethylbenzene, and xylenes. No contaminated material was removed, and a new 10,000-gallon fuel oil UST was installed. A year later, in 1998, four monitoring wells were installed and sampled for volatile organic compounds (VOCs). Elevated levels of chlorinated VOCs, including tetrachloroethylene (PCE) and its byproducts, were identified in the groundwater samples (Stone, 2017).

Dufresne-Henry completed a Phase I ESA in 1999. The Phase I ESA identified multiple RECs, which included the use of hazardous materials and 48 abandoned transformers that tested positive for polychlorinated biphenyls (PCBs; Dufresne-Henry, 1999). In 2001, Loureiro Engineering (Loureiro) oversaw the removal of the PCB-containing transformers. The concrete floor of the transformer room, attached to the Boiler House, was washed and sealed with a two-part epoxy coating. One soil sample was collected to the east of the concrete pad near former transformer No. 5. Low levels of PCBs were detected in the soil sample; however, concentrations were not high enough to require remediation or removal of impacted soils (Loureiro, 2001).

In 2001, Marin Environmental (Marin) updated the Phase I ESA. This Phase I ESA documented that ownership had not changed since the previous Phase I ESA was conducted by Dufresne-Henry in 1999. An emergency response call was made to Matrix Chemical by the Springfield Fire Department in response to the presence of odors emanating from the facility. Chief Lamphere of the Springfield Fire Department identified the presence of improperly stored chemicals and a burner left on overnight as the cause for the odors. Several out of service USTs and several floor drains were identified at the property. On-going sampling during 2001 included the collection of groundwater samples for VOCs, semi-volatile organic compounds (SVOCs) and PCBs. VOCs and SVOCs were detected in groundwater on the southern portion of 100 River Street and in a bedrock well. The extent of impacts had not been defined and the source had not been identified. Chlorinated VOCs were determined likely to be related to machine shop operations. Several SHWS and LUST sites were identified within 0.5 miles of 100 River Street. Contamination from these sites were determined not likely to impact 100 River Street based on their distance and direction. Abandoned containers from previous tenants were identified at 100 River Street; however, no leaks or discharges were observed (Marin, 2001a).

In October 2001, Marin conducted a Phase II ESA at 100 River Street. Results of the Phase II ESA documented elevated concentrations of petroleum hydrocarbons, believed to be aged gasoline, in soil and groundwater in the vicinity of the gasoline USTs; however, it was unknown whether the tanks were still present on 100 River Street. Elevated concentrations of chlorinated solvents were detected in groundwater in the vicinity of the former #4 fuel oil USTs, Machine Shop No. 4, the metal Chip Shed, and the former garage. The source(s) of the chlorinated solvents were not determined. Additional areas of concern identified included the loading dock area, where low concentrations of petroleum hydrocarbons and chlorinated solvents were detected in soil and the vicinity of the 1,000-gallon fuel oil UST, where low concentrations of petroleum hydrocarbons were detected in soil and groundwater. Additionally, samples collected from the former location of four transformers, yielded low level concentrations of PCBs (Aroclor 1260) in surface soils. Depth to groundwater on 100 River Street was documented as being between 4.5 and 13 feet below ground surface. The depth to dense glacial till or bedrock was documented as being between 5 and 15 feet below ground surface. An additional UST was also identified as potential present next to the kerosene UST (Marin, 2001b).

Griffin International (Griffin) completed a Phase III ESA in 2002 as part of the continuing site investigations at the property. During the installation of two deep monitoring wells a confining layer consisting of glacial till and rock was identified at a depth of 22 feet below ground surface. Materials beneath this unit were unsaturated and it was believed to be restricting the vertical flow of groundwater and contaminant migration. Trichloroethylene (TCE) was detected in a soil sample collected during the installation of a groundwater monitoring well within Machine Shop No. 4 (Part E). Groundwater flow was determined to be in an easterly direction toward the Black River at a gradient of approximately 0.06 feet per foot. Two petroleum related VOC plumes, one related to USTs south of the boiler room and the other associated with a gasoline UST near the southern property boundary, were identified at the Site. Two chlorinated VOC plumes were also identified during the investigation, one originating from under Machine Room No. 4 (Part E) and the second from the southern parking lot. Three groundwater monitoring wells contained chlorinated VOCs at concentrations in excess of relevant regulatory standards. Metals including arsenic, copper, lead, nickel, and zinc were also detected at concentrations less than relevant regulatory criteria. Trace chlorinated VOCs were detected in both on-site water supply wells at concentrations below relevant regulatory criteria. PCBs were detected in each of the seven soil samples collected near the former and existing electrical transformers (Griffin, 2002).

The Johnson Company (JCO) performed an updated Phase I ESA in 2005. This Phase I ESA revealed no additional conditions indicative of releases or threatened releases of hazardous materials or RECs beyond those identified in the prior Phase I ESA Update conducted by Marin, with the exception of the paint in the

former electrical room. The epoxy paint applied as a protective barrier from PCB impacted concrete and soil appeared to be cracking, peeling, and no longer functional for its intended purpose (JCO, 2005).

In 2006, JCO oversaw the closure of five USTs at the property. The tanks formerly held alcohol, turpentine, kerosene, fuel oil, and gasoline. The alcohol, turpentine, and kerosene USTs were observed to be in poor condition upon removal with visible holes. The UST Closure Report indicated that the USTs did not appear to have significantly impacted soil and/or groundwater in the vicinity of the USTs. The fuel oil UST appeared to be in good condition; however, it contained a mixture of fuel oil and water. Minimal impacts were observed in the soil surrounding this UST. Minor impacts to soil and groundwater were noted in the vicinity and downgradient of the gasoline UST. The report suggested that minor impacts to the Black River may exist due to the gasoline UST. JCO requested that the VT DEC recommend that no further actions were necessary related to the UST work (JCO, 2006a).

An additional Phase III was subsequently conducted by JCO in 2006. During the site investigation, PCB concentrations in exceedance of drinking water standards were identified beneath the electrical room. In addition, chlorinated VOCs were identified above relevant regulatory standards in groundwater samples collected from four monitoring wells adjacent to the Black River, and from one monitoring well on the north side of the building. No non-chlorinated VOCs or metals were detected in groundwater samples above relevant regulatory criteria. Petroleum impacted soils were observed in the immediate vicinity of the Chip Shed where metal shavings were discarded. The impacts appeared to be from a light mineral oil, with contamination detected at an approximate depth of five feet below ground surface. The total estimated volume of the oil-impacted soil was calculated to be approximately 120 cubic yards. In addition, 10 drums containing different materials were observed throughout the building (JCO, 2006b).

A Phase I was completed by URS Corporation (URS) in 2009. This Phase I identified the following RECs: PCBs, hazardous materials, former and existing electrical rooms, an underground vault, a chip shed, a coolant tank and sump, a boiler room, VOC- and chlorinated VOC- impacted groundwater, asbestos-containing building materials, and lead-based paint (URS, 2009).

In May 2009, JCO prepared a post-abatement sampling plan for a PCB Risk-Based Cleanup Plan (RBCP) in the northwestern portion of the 100 River Street building. This letter report detailed the methodology, number and frequency of remedial cleanup and ongoing monitoring sampling and analysis within Part B of the site building (JCO, 2009a). This was followed by a Corrective Action Feasibility Investigation (CAFI) and Corrective Action Plan (JCO, 2009b) for remedial activities at 100 River Street. Remedial activities included:

- Implementation of a RBCP for concrete in the main building.
- Removal of the outdoor transformer pad and adjacent soils.
- Cleanup of the underground vault in transformer room.
- Cleanup of the cutting oil recycling tank.
- Demolition of the Chip Shed and Boiler House.
- Closure of the Boiler House supply well.
- Removal of the fuel oil UST.
- Removal of soils from the Chip Shed area.
- Removal of waste drums from the building.
- Design and construction of a vapor mitigation system.
- Establishment and implementation of long-term maintenance schedules for:
 - Monitored natural attenuation of chlorinated solvents in groundwater.
 - A vapor intrusion mitigation system.

- PCBs in the main building.
- Monitoring for PCBs in groundwater downgradient of the Chip Shed.

Stone completed a Phase I ESA of the Subject Property in 2010. This Phase I identified the following RECs:

- Past use of 100 River Street as a machine manufacturing facility that included the following specific processes:
 - Use of PCB-contaminated machining oils.
 - Storage of machining “chips” within an exterior Chip Shed where machining fluids drained to soil.
 - Use of chlorinated solvents as degreasing agents.
 - Operation of loading docks in the southern and northern areas.
 - Use of ten (10) out of service USTs for various chemicals and fuels.
 - Onsite storage of virgin and waste machine oils, chlorinated solvents, and ketones.
 - Documented contamination in building materials and soil by PCBs.
 - Documented contamination in soil, soil gas, and groundwater by chlorinated solvents include PCE, TCE, and associated breakdown products.
- Past use of 100 River Street for chemical storage (Matrix Chemical).
- Occurrence of approximately ten (10) hazardous waste containers and approximately 3,000 PCB-contaminated fluorescent light ballasts on 100 River Street.
- Location of 100 River Street adjacent to known RCRA generators with documented violations.
- Location of 100 River Street downgradient of potential sources of chlorinated solvents, including a dry cleaner and other machine shops, and PCB contamination.

Historical concentrations of PCBs in concrete and non-porous surfaces are shown on Figure 6a (ground floor) and Figure 6b (first floor) in Appendix A. Remedial activities were initiated following the approval of the PCB RBCP from the EPA TSCA Division for concrete in the main Site building. Table 1, below, is modified from Stone’s report titled *Site Status Report, 100 River Street, Springfield, VT*, dated July 2, 2014, to summarize current uses of the Subject Property by area and current status of proposed remedial activities, as presented in the Site CAP (The Johnson Company, 2009) and subsequent amendment (Stone, 2011).

Table 1: 100 River Street Remedial Activity Summary

Location	Description	Remedial Work Completed	Remedial Work Remaining	Use/ Occupancy
Part A	Upper level, western side of main building	Demolished and redeveloped as a parking lot	None	Surface Parking Lot
Part B	Upper level, western side of main building	Divider wall constructed to divide space in two (eastern and western). 4-inch concrete cap installed across all of Part B. Walls and ceiling painted with 2 coats of epoxy paint.	None	Eastern Portion: Trout River Brewing Western Portion: Vacant
Part C	Upper level, northeastern corner	Divided wall constructed to divide the space into two sections (eastern and western). 4-inch concrete cap installed across all of Part C. Walls and ceiling of the eastern portion painted with 2 coats of epoxy paint	Paint the walls of the western half with 2 coats of epoxy paint	Eastern Portion: Visiting Nurse Association Western Portion: Vacant
Part D/F	Upper and lower level, former machine shop #2	Partial demolition, installation of asphalt cap, and application of 2 coats of epoxy paint on walls and ceiling	None	Interior Parking Garage

Location	Description	Remedial Work Completed	Remedial Work Remaining	Use/ Occupancy
Part E	Lower level, machine shop #4, surrounding hallways, and transformer room T2	Hallways and eastern portion (including Room 1) sectioned off from main machine shop and transformer room. 4-inch concrete cap installed and walls and ceilings paint with 2 coats of epoxy paint throughout hallways and eastern portion of Part E.	Paint the walls with 2 coats of epoxy paint in Room 1 and remaining sections of Part E.	Hallways and Eastern Portion: Bathrooms, Maintenance office, storage space, boiler room. Unfinished Space: Vacant
Part G	Upper level, former great hall loading and storage area	Installation of 4-inch concrete cap and application of 2 coats of epoxy paint on walls and ceiling	None	Meeting space
Part H	Upper level, center of building	Divider walls constructed and sectioned off into 4 spaces (Room 1-4). 4-inch concrete cap installed, and walls and ceiling painted with 2 coats of epoxy paint in Room 2	Install 4-inch concrete cap and paint the walls with 2 coats of epoxy paint in Room 1, Room 3, and Room 4	Room 2: Formerly Pharmacy, now vacant Room 1, 3, & 4: Vacant
Part J	Upper level, northern side	None	Install 4-inch concrete cap and paint the walls with 2 coats of epoxy paint	Vacant
Part LMN	Upper level, smaller rooms on eastern side	Installation of 4-inch concrete cap and application of 2 coats of epoxy paint on	None	Formerly Cuppity Kakes, now vacant
Part NLD (includes Part I/K)	Upper level, northern loading dock	None	Install 4-inch concrete cap and paint the ceiling and walls with 2 coats of epoxy paint	Vacant
Part O	Upper level, wooden floor storage area	Demolished	None	N/A
Part P	Lower level, below grade loading area	Demolished	None	N/A
Part Office Area	Upper and lower level, office space	SSD system installed below the office space	None	Springfield Health Center
Boiler House	Upper and lower level, office space	Partially demolished	None	Vacant
Chip Shed	Upper and lower level, office space	Demolished	None	N/A

Stone conducted long-term monitoring activities in 2017. Results indicated that chlorinated VOCs continue to be present in soil gas in the southeast corner of the building (Office Area), and the sub-slab depressurization (SSD) system is properly mitigating VI risk in this area. Chlorinated VOCs also remain present in groundwater within the northwestern portion of the Site, predominantly below the main building, at concentrations exceeding relevant regulatory criteria. Concentrations continue to decrease since previous monitoring events due to natural attenuation including reductive dechlorination. PCBs were not detected in groundwater samples collected from monitoring wells, and concentrations have significantly attenuated near the Chip Shed since 2008. Indoor air was also monitored for PCBs and no action levels were exceeded. Protective barriers, which include concrete and epoxy paint, were properly mitigating direct exposure to PCBs as well as aiding in the reduction of PCBs in indoor air. Indoor air PCB concentrations in Room 1 (0.12 µg/L) exceeded the occupied room action level, however, the room was unoccupied and undergoing remedial actions and renovations at the time of sampling (Stone, 2017).

Stone conducted Phase I ESAs in accordance with ASTM Standard practices E1527-13 and E1527-21 on August 3, 2020, and February 5, 2025, as part of environmental due diligence on behalf of ICP (formerly Heartland Group) and ICP Springfield SPE, LLC, respectively, in anticipation of purchasing the Site. Stone conducted a Phase II ESA of the Site that focused on RECs associated with the previously unassessed

Cafeteria Building, concurrent with this SSI. Specifically, Stone assessed PCBs in building materials and assessed soil quality near the Cafeteria Building. Results of the Phase II ESA will be submitted within a separate report.

1.4. Redevelopment Plan

ICP Springfield SPE, LLC, the prospective purchaser, intends to redevelop the Site as part of a greater redevelopment project centered at 100 River Street. Planned improvements include creating self-storage units in the basement and a portion of the upper floor, and unspecified commercial leases in the remaining upper floor. Ancillary improvements will include installation of new HVAC and bathrooms.

2. Methods

SSI field work was performed by Stone between June 23, 2021, and July 9, 2021, in accordance with the approved Work Plan, dated August 18, 2020, and Work Plan Amendment 1, dated October 6, 2020. Field notes are provided as Appendix B.

The objectives of the SSI were to better define the following areas of concern within the main building:

- PCBs are present in various Site media of interest.
 - PCBs are known to be sorbed to concrete and masonry building materials at concentrations that exceed EPA TSCA Division walkaway criteria.
 - It is unknown whether paint on walls and structural steel within the former Fellows Gear Shaper machine shops contains PCBs as a bulk product.
 - Electrical conduit previously identified within the former Part A machine room (currently the upper parking lot) may be present within the north end of the Site building.
 - Further analytical results are necessary from locations within the northern loading dock area to achieve the appropriate sample density required to update the EPA TSCA Division.
- Previous environmental investigation and monitoring of the Site has demonstrated that VOCs are present in Site groundwater beneath the northern end of the main building at concentrations that exceed the Vermont Groundwater Enforcement Standard (VGES). It is unknown whether VOCs in groundwater could serve as a potential source to indoor air contamination through vapor intrusion.

2.1. Work Plan Deviations

The following summarizes deviations to the Work Plan Amendment 1:

- A geophysical survey was not conducted to evaluate whether an electrical conduit grid containing PCB-contaminated oil in former Part A extends below Part B. Prior to conducting the geophysical survey, Stone was made aware of building as-built plans depicting the electric conduit grid extending below Part B; the survey was therefore not warranted.
- A field duplicate for soil vapor samples was not submitted for laboratory analysis. During collection of a field duplicate, the pressure in the Summa canister reached 0 inches of mercury (inHg). The flow rate could therefore not be determined, and the sample was void.
- Two sub-slab soil samples were collected in the northern loading dock area and Part B. Samples were collected from immediately below the slab and submitted for analysis of SVOCs, PCBs, metals, and TPH.
- With the prior redevelopment plan relying on a partial demolition of the main building, sub-slab soil quality concentration data were deemed necessary. Similarly, the position of the intra slab conduit was deemed to be needed to support the removal of the slab. Given the completion of remedial installations in these areas and proposed continued use of the building without demolition, sub-slab soil quality and the presence of intra-slab conduits are not relevant to the proposed redevelopment.

2.2. PCB Building Materials Assessment

Building material samples were collected to support remedial planning in accordance with a RBCP (40 CFR §761.61(c)). All reusable sampling equipment was decontaminated between sample locations using an Alconox solution or isopropyl alcohol scrub, and clean water rinse. Decontamination liquids were contained in 5-gallon buckets pending waste characteristics determination. Building materials sample locations are depicted on Figure 7a (ground floor) and Figure 7b (first floor) in Appendix A.

2.2.1. Paint

Stone collected twelve paint samples (100R-PT-01 through -12) on June 23, 2021, to evaluate whether PCBs were used as plasticizers in paint applied to building surfaces. Paint samples were collected from areas of the Site that did not undergo redevelopment and older paint remains. Painted surfaces were decontaminated prior to sampling using a d-limonene-based cleaner except for at three locations on the first floor where standard hexane wipe samples (100R-WP-01, -02, and -03) were collected prior to sampling paint. At these locations, hexane wipe samples were collected within a 100 square centimeter area using a disposable template to evaluate whether dust or oil-residue present on the paint is PCB-contaminated. Hexane wipe samples were biased towards walls with the most significant dust and/or oil residue present.

Paint samples were collected to be representative of each paint color observed: white, light green, and dark green paint on the ground floor, and white epoxy, beige, and beige-grey paint on the first floor. Paint samples were collected using hand tooling (e.g., cold chisel or utility knife) to physically remove paint from sample surfaces. Paint was collected on dedicated sheets of aluminum foil, manually broken into uniform size, thoroughly mixed, and placed into clean laboratory provided containers. Sampling equipment was decontaminated between sample locations using an isopropyl alcohol scrub and clean water rinse.

Stone collected three masonry samples (100R-MS-01, -02, and -03) on June 23, 2021, to evaluate whether PCBs have diffused from paint into masonry substrate. Masonry sample locations were co-located with the three wipe samples. Paint was removed from the surface and a rotary hammer drill was used to pulverize masonry from the outer ½-inch of the wall surface. Multiple adjacent holes were drilled to ensure that at least 20 grams (g) of material was collected. Pulverized masonry was collected in clean aluminum foil and transferred to sample containers.

Quality assurance/quality control (QA/QC) samples included one field duplicate per sample matrix (minimum 5% frequency) and one equipment blank per day PCB sampling was conducted. The equipment blank was collected as a standard hexane wipe from all sampling equipment used following decontamination procedures. All paint, wipe, and masonry, and QA/QC samples were transported under chain of custody procedures to Con-Test Analytical Laboratory of East Longmeadow, Massachusetts (currently Pace Analytical) for PCB analysis by EPA Method 8082 with manual Soxhlet extraction.

2.2.2. Non-Porous Surfaces – Elevator

To determine if lubricating oils associated with an out-of-service elevator located in the northern loading dock area contain PCBs, three standard hexane wipe samples (100R-WP-04, -05, and -06) were collected from various oil-coated non-porous elevator surfaces (the winch, gearbox, and pulley, respectively) on June 23 and 24, 2021. Wipe samples were collected and analyzed for PCBs in the same manner as described above for the paint assessment.

2.3. Soil Gas Assessment

On June 29, June 30, and July 9, 2021, Stone conducted an assessment of VOCs in sub-slab soil gas in the basement area and portions of the north end of the main building to determine whether potential releases of

hazardous substances, chlorinated solvents, and petroleum products formerly used at the Site or at an upgradient property present a risk to indoor air quality. Nine sub-slab soil vapor samples (100R-SG-01 through -9; Figures 7a and 7b) were distributed throughout the Site building. At these locations, temporary stainless-steel Vapor Pins™ were installed to screen for the presence of VOCs and collect soil vapor samples. Vapor Pins™ were equipped with a barb fitting and connected to a piece of 1/4-inch outside diameter fluoroethylene propylene (FEP) tubing. The concrete slab near each Vapor Pin™ location was visually inspected for cracks or holes, which, if present, were sealed with thinset mortar. Soil gas sample locations were screened for VOCs with a photoionization detector (PID) equipped with a 10.6 electron-volt (eV) lamp. The PID was calibrated each day prior to use in accordance with Stone's SOPs and the calibration checked at the end of each day. The peak PID measurement was recorded on field forms. Shut-in and water dam leak test procedures were conducted prior to sampling to ensure that ambient air was not drawn into the Vapor Pins™ or sample train (i.e., FEP tubing). Following successful leak testing and PID screening, Stone collected soil vapor samples into batch certified clean Summa canisters equipped with 30-minute flow regulators.

Due to the stripping of volatile contaminants from soil vapor that can occur following significant rain events, Stone did not perform the soil gas assessment task if over 0.5 inches of rain fell within two days prior to the scheduled field work. All reusable soil gas sampling equipment was decontaminated between sample locations using an Alconox solution scrub, clean water rinse, and dried.

Sample locations were backfilled with mason's caulk following sample collection. The slab surface was vacuumed and wiped down with d-limonene following sample collection.

Soil vapor samples were submitted under chain of custody procedures to Con-Test (currently Pace Analytical) for analysis of VOCs by EPA Method TO-15.

2.4. Sub-Slab Soil Assessment

On June 29, 2021, Stone collected two sub-slab soil samples in the northern loading dock and Part B (100R-SB-101-2.0 and 100R-SB-102-2.0; Figure 7b, Appendix A) to evaluate disposal costs associated with the previous redevelopment plans. Soil samples were collected by coring through the slab with a core drill and manually collecting the underlying soil. Samples were submitted under chain of custody procedures to Con-Test (currently Pace Analytical) for the following analyses:

- SVOCs: EPA Method 8270,
- PCBs: EPA Method 8082,
- RCRA 8 Metals: EPA Methods 6010 and 7471, and
- TPH-Diesel Range Organics (DRO): EPA Method 8100

2.5. Investigation Derived Waste

Investigation derived waste (IDW) produced during this SSI included decontamination liquids, sample tubing, and personal protective equipment (PPE). Decontamination liquids were combined with those generated during the Phase II ESA of the cafeteria building and 5 Pearl Street areas and contained in 5-gallon buckets. Containers were labeled with contents and generation date and stored in a secure location. A waste characterization sample of IDW water was collected as part of the Phase II ESA and was found to be non-hazardous; the full results will be reported in a future report. The water is believed to still be staged at the Site.

PPE and tubing generated during the SSI and Phase II ESA were disposed of as non-hazardous solid waste.

3. Evaluation of Investigation Results

Analytical results are summarized in Appendix C and full analytical laboratory reports are provided in Appendix D. The following tables are provided in Appendix C:

- Table C-1: Concentrations of Polychlorinated Biphenyls in Bulk Building Materials
- Table C-2: Concentrations of Polychlorinated Biphenyls in Solid (Non-Porous) Media
- Table C-3: Concentrations of Polychlorinated Biphenyls in Solid (Porous) Media
- Table C-4: Concentrations of Volatile Organic Compounds in Soil Gas
- Table C-5: Concentrations of Semi-Volatile Organic Compounds in Soil
- Table C-6: Concentrations of Polychlorinated Biphenyls in Soil
- Table C-7: Concentrations of Metals in Soil
- Table C-8: Concentrations of Total Petroleum Hydrocarbons in Soil

3.1. Relevant Regulatory Criteria

Samples collected during the SSI are compared to the following regulatory criteria:

- Porous building materials (concrete, masonry, and wood): Cleanup and disposal criteria for porous materials as presented in Chapter 40 of the Code of Federal Regulations, Subsection 761.61 (40 CFR §761.61).
- Non-porous building materials (elevator components): Cleanup and disposal criteria for non-porous materials as presented in 40 CFR §761.61.
- Potential PCB products (caulk and paint): Cleanup and disposal criteria for bulk and excluded PCB products as presented in 40 CFR §761.62.
- Soil Vapors: Vapor Intrusion Standards (VIS) for resident and non-resident properties included as Appendix A - §35-APX-A2 of the Vermont Department of Environmental Conservation (VT DEC) Investigation and Remediation of Contaminated Properties Rule (IRule; effective February 23, 2024).
- Soils:
 - Vermont Soil Standards (VSS) for resident and non-resident properties published as Appendix A - § 35-APX-A1 of the IRule.
 - Analytes that do not have a VSS will be compared to current (November 2024) United States EPA Regional Screening Levels (RSLs) for resident and industrial soil.
 - Cleanup and disposal criteria for PCB remediation waste presented in 40 CFR §761.61.

3.2. PCB Building Materials Assessment

PCB building material assessment results are shown on Figure 7a (ground floor) and 7b (first floor) in Appendix A.

3.2.1. Paint

PCBs were detected above the laboratory reporting limits in all 12 paint samples in the basement and northern areas of the main building. Concentrations of total PCBs ranged from 18.5 milligrams per kilogram (mg/Kg) to 198 mg/Kg (Table C-1, Appendix C) with 10 of the 12 samples exceeding the threshold of 50 mg/Kg for

PCB Bulk Product (all samples except 100R-PT-01 and -04 located at the northern end of the northern loading dock). PCB concentrations exceeded the TSCA cleanup level in all paint colors sampled. One paint sample collected from the western portion of Part B (100R-PT-06) was collected from both a white epoxy barrier paint that was observed to be peeling in this space and underlying beige paint. This beige paint is similar to what was observed in the northern loading dock area. The white epoxy protective barrier in the western portion of Part B was noted as needing to be repaired.

In wipe samples co-located with paint in the northern loading dock, PCBs were detected above laboratory reporting limits, but below the TSCA high occupancy walkway cleanup level of 10 milligrams per 100 square centimeters (mg/100 cm²) for solid non-porous media in two of the three samples. Concentrations of detectable total PCBs were 1.70 mg/100 cm² at 100R-WP-03 and 1.82 mg/100 cm² at 100R-WP-02 (Table C-2, Appendix C), indicating that dust or oil-residue present on the paint in this area does contain PCBs, but at levels below the applicable cleanup level in some locations.

In masonry samples co-located with paint and wipe samples in the northern loading dock, PCBs were detected above laboratory reporting limits in all three samples, and above the TSCA high occupancy walkway cleanup level of 1 mg/Kg for solid porous media in one sample (100R-MS-03; total PCBs – 2.2 mg/Kg; Table C-3, Appendix C). The 100R-MS-03 location also had the highest PCB concentration in the paint sample suggesting that there has been diffusion of PCBs from paint into the masonry substrate.

3.2.2. Non-Porous Surfaces – Elevator

PCBs were detected above the TSCA high occupancy walkway cleanup level of 10 mg/100cm² for solid non-porous media in all three wipe samples collected from surfaces of the out-of-service elevator. Concentrations of total PCBs were detected at:

- Elevator winch (100R-WP-04): 165 mg/100cm²
- Elevator gearbox (100R-WP-05): 31.8 mg/100cm²
- Elevator pulley (100R-WP-06): 69 mg/100cm²

Detections suggest that residual oil present on elevator component will need to be managed if the elevator components are planned for disposal in future variations of redevelopment plans.

3.3. Soil Gas Assessment

PID readings for the nine soil vapor samples were less than 5.0 parts-per-million by volume (ppm v/v), except at locations 100R-SG-02 (305.7 ppm v/v) near the northern loading docks, and 100R-SG-03 (7.5 ppm v/v) and 100R-SG-04 (7.3 ppm v/v) in the southern portion of the ground floor. Differential pressure readings were slightly negative or neutral, except at one location (100R-SG-03, 0.216 inWC). Negative pressures indicate that the sub-slab environment is depressurized relative to indoor air and vapor intrusion is less likely to occur, while positive pressures indicate the inverse.

Numerous petroleum and chlorinated VOCs were detected at concentrations exceeding the residential or non-residential VIS in the soil vapor samples, including aromatic hydrocarbons, naphthalene, 1,1-dichloroethane (1,1-DCA), carbon tetrachloride, PCE, and TCE (Table 2 and Table 3). Concentrations of aromatic and chlorinated VOCs detected in soil vapor are shown on Figure 8a and 8b in Appendix A.

In general, higher concentrations of petroleum VOCs were detected in soil gas beneath the first floor loading dock area, while higher chlorinated VOC concentrations were detected beneath the ground floor slab. Additionally, higher concentrations of chlorinated VOCs were observed at soil gas locations to the north, closer to the Black River (100R-SG-06, -07, and -08), with the relative concentration of PCE to TCE in each

sample also being higher further north. Notably, the PCE and TCE biodegradation product cis-1,2-dichloroethylene (cis-1,2-DCE) was only detected at low concentrations (non-detect or less than 10 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) in soil gas, except at one location (100R-SG-06), suggesting that minimal biodegradation is likely occurring at the source for the soil gas contamination.

Table 2: Petroleum VOC Exceedances in Soil Vapor

	Petroleum Volatile Organic Compounds ($\mu\text{g}/\text{m}^3$)			
	1,2,4-Trimethylbenzene	Benzene	Ethylbenzene	Naphthalene
Resident VIS	2,000	4.3	13	1
Non-Resident VIS	7,000	35	110	8
100R-SG-01	55	9.3	7.3	13
100R-SG-02	2,600	12	24	<0.52
100R-SG-03	<0.49	24	5.4	8.6
100R-SG-04	8.0	<0.32	1.0	20
100R-SG-05	4.6	3.6	1.0	<0.52
100R-SG-06	<0.49	9.0	1.9	2.9
100R-SG-07	1.6	3.1	0.88	<0.52
100R-SG-08	4.3	0.64	0.92	1.9
100R-SG-09	<0.49	1.5	0.55	<0.52

Abbreviations: VIS – Vapor Intrusion Standards; $\mu\text{g}/\text{m}^3$ – micrograms per cubic meter; NE – no standard established; bold results indicate detections of the analyte; shaded results indicate an exceedance of the residential enforcement standard; italicized results indicate an exceedance of the non-residential enforcement standard; “<” – analyte was not detected above the laboratory reporting limit shown.

Table 3: Chlorinated VOC Exceedances in Soil Vapor

	Chlorinated Volatile Organic Compounds ($\mu\text{g}/\text{m}^3$)				
	1,1-Dichloroethane (1,1-DCA)	Carbon Tetrachloride	Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Cis-1,2-dichloroethene (cis-1,2-DCE)
Resident VIS	21	5.7	21	6.7	NE
Non-Resident VIS	170	45	170	23	NE
100R-SG-01	<0.4	0.96	9.1	5.0	<0.4
100R-SG-02	<0.4	<0.63	40	9.9	<0.4
100R-SG-03	<0.4	<0.63	55	90	<0.4
100R-SG-04	<0.4	<0.63	33	150	<0.4
100R-SG-05	<0.4	<0.63	4.6	410	8.5
100R-SG-06	1,900	<0.63	200	2,800	310
100R-SG-07	<0.4	8.0	720	2,100	5.4
100R-SG-08	<0.4	3.3	440	660	2.1
100R-SG-09	<0.4	1.3	22	120	<0.4

Abbreviations: VIS – Vapor Intrusion Standards; $\mu\text{g}/\text{m}^3$ – micrograms per cubic meter; NE – no standard established; bold results indicate detections of the analyte; shaded results indicate an exceedance of the residential enforcement standard; italicized results indicate an exceedance of the non-residential enforcement standard; “<” – analyte was not detected above the laboratory reporting limit shown.

3.4. Sub-Slab Soil Assessment

SVOCs and PCBs were not detected above laboratory reporting limits in the two sub-slab soil samples taken from the northern loading dock and Part B areas (Table C-5 and C-6 in Appendix C).

The following metals were detected in the two soil samples at concentrations below their respective residential VSS: barium, beryllium, chromium, copper, lead, nickel, zinc, and mercury (Table C-7, Appendix C).

TPH-DRO was not detected above laboratory reporting limits in soil sample 100R-SB-101-2.0 but was detected above the EPA industrial RSL of 440 mg/Kg in soil sample 100R-SB-102-2.0 at 2,600 mg/Kg (Table C-8, Appendix C).

4. Quality Assurance/Quality Control (QA/QC)

4.1. Field Duplicates

Field duplicate samples were collected for building material samples. Field duplicate samples results are summarized in the tables in Appendix C.

To assess precision of the analytical results, relative percent difference (RPD) values were calculated for each primary-duplicate sample pair using the following formula:

$$RPD = \frac{|C_1 - C_2|}{\frac{C_1 + C_2}{2}} \times 100$$

Where: C1 = Concentration of a given target analyte in the Primary Sample, and

C2 = Concentration of a given target analyte in the Field Duplicate sample

RPDs for PCBs in building materials were within the EPA acceptance criteria of 50%, except for the RPD for total PCBs in paint. The RPD for total PCBs in paint in parent-duplicate sample 100-PT-03/100-PT-03-FD was 57%. This is likely due to heterogeneities in the paint and possibly, unintentional collection of small amounts of other building materials (e.g., primer or masonry underlying the paint) during sample collection. The elevated RPD does not affect data usability.

Due to an equipment failure a duplicate sample was not submitted for soil vapor samples. A duplicate soil sample was also not collected.

4.2. Equipment Blanks

One equipment blank was collected per day of work that PCB sampling was conducted. The equipment blanks were collected as a standard hexane wipe from sampling equipment used following decontamination procedures. No PCBs were detected at concentrations above laboratory reporting limits in the equipment blank samples, indicating that sampling equipment was properly decontaminated between sample locations. Equipment blank results are presented in Table C-2 of Appendix C.

5. Conceptual Site Model

The following Conceptual Site Model (CSM) provides a set of working hypotheses that describe key aspects of the Site. The CSM includes a discussion of the physical, geologic, and hydraulic attributes of the Site and surrounding area, how chemicals were released at the Site, their transport pathways, fate mechanisms, and potential routes of exposure to ecological and human receptors. The CSM provides the context from which the site investigation is developed and a framework to make sound Site management decisions.

5.1. Topography

The Site is situated approximately 489 feet above mean seal level. The Site slopes from its southwestern border (Pearl Street) down to the northeastern border (the Black River). The top of the bank is approximately 10 feet above the Black River in the northeast corner of the Site's lower parking lot.

5.2. Geology

5.2.1. Bedrock

According to the Bedrock Geologic Map of Vermont (Ratcliffe, et al., 2011), bedrock below the Site is mapped as phyllite and metalimestone, which is described as dark-gray to silvery-gray, lustrous, carbonaceous muscovite-biotite-quartzite phyllite containing abundant beds of punky-brown-weathering, dark-bluish-grey micaceous quartz-rich limestone in beds ranging from 10 centimeters to 10 meters thick. Bedrock outcrops were observed in the Black River immediately east of the Site during Stone's Phase I ESA inspection on January 27, 2025 and were consistent with the description above. The dip of beds appeared to be near vertical.

5.2.2. Surficial Material

According to the Surficial Geologic Map of Vermont (Doll, Ed., 1970), native unconsolidated soils at the Site are primarily mapped as post glacial fluvial deposits composed of fluvial sand and gravel. The southeastern portion of the 100 River Street property under the footprint of the main building is mapped as a glaciolacustrine deposit consisting of pebbly sand. These deposits resulted from inundation of the region following the last glacial maximum when the region was flooded by Glacial Lake Hitchcock. Native soils are expected to be reworked with fill as the Site was developed.

Site investigations at the Site documented dense glacial till encountered at depths ranging between 5 and 15 feet below ground surface (Marin, 2001b). During monitoring well installation in 2017, Stone reported soil in the upper 12 feet to consist of silty sand and gravel before transitioning to dense glacial till (Stone, 2017).

5.3. Hydrology and Hydrogeology

The Black River abuts the Site to the north and northeast and generally flows northwest to southeast. Groundwater at the 100 River Street property has been measured at depths between 6 to 10 feet below grade in the eastern portion of the Site and flows northeasterly toward the Black River at a gradient of 0.05 feet per foot (Stone, 2017). Groundwater on 5 Pearl Street was found to flow in a northeastern direction by Harper (2010). Groundwater at the adjoining property to the southwest, 76 Pearl Street, was found to be flowing north

towards the Black River. Based on these observations, we surmise that flow within the unconsolidated aquifer is largely controlled by the presence and gauge height of the Black River. Groundwater is expected to flow generally to the northeast towards the Black River. In portions of the Site where retaining walls are present, shallow groundwater flow to the Black River is likely hindered. In other areas, such as where buried utility lines are present, we expect that flow may be affected; these utilities and their backfill may act as preferential pathways for groundwater and/or soil gas movement at the Site.

5.4. Industrial Setting

The Site was utilized for machine manufacturing for much of the last century. Known releases have occurred at the Site, including cutting fluids and coolants containing PCBs and chlorinated solvents including PCE and TCE, among others.

Properties of environmental concern also border the Site, including the previously mentioned machine shop at 76 Pearl Street (Gear Works, Inc.), former dry-cleaner (Snow-White, Inc.) at 7 Morgan Street, the former machine manufacture at 65 Pearl Street, and the 5 Pearl Street property. The 7 Morgan Street property is currently a rehabilitation home though operated as a dry-cleaner in the 1940s under the name Snow-White, Inc. Based on the reported age of the dry-cleaning operations, contaminants of concern include PCE and Stoddard solvent.

5.5. Potential Release Mechanisms, Fate, and Transport

A CSM for the Site was described in the 2009 CAP (JCO, 2009) and portions updated in the 2017 long-term monitoring report (Stone, 2017) the following descriptions primarily focus on the main building northern loading dock and basement (Part E) where SSI activities occurred.

5.5.1. Polychlorinated Biphenyls (PCBs)

PCBs are a group of structurally similar, man-made chemicals that were manufactured in the United States from 1929 until 1979, after which time manufacturing was banned. During this time, PCBs were used in coolants and lubricants in transformers, capacitors, and other electrical equipment or machinery, hydraulic fluids, as well as in cutting oils for machining operations. Spills of PCB-containing cutting oil have occurred at the Site, resulting in contamination of concrete slabs. PCB contamination can be spread throughout buildings by foot traffic. For example, a worker standing on a contaminated area of slab near a machine base would likely get cutting oil on their work boots and track these oils to the bathroom, breakroom, office, or other areas of the building. Concrete slabs in the main building have been historically assessed with exceedances of the 1 mg/Kg walkaway standard observed across much of the building except for the Office Area. Exceedances of the 10 mg/Kg high occupancy cap standard are intermittently present in the machine shop areas and transformer rooms throughout the building with certain portions of these areas also exceeding the 25 mg/Kg low occupancy no cap standard.

The elevator components in the northern loading dock area were assessed for PCB-containing oil during the SSI and found to be impacted, suggesting that lubricating oil used on the mechanical components historically contained PCBs. The observed concentrations of PCBs are unlikely to cause a significant impact to indoor air, however, if the equipment were to be removed during future redevelopment activities they would need to be decontaminated or properly disposed.

PCBs were also commonly used in institutional and industrial buildings as a plasticizer in caulk and glazing to seal the joints between window frames and brick and masonry in buildings and in paint. Caulk, glazing, and paint containing PCBs were used in construction and renovations of large buildings, such as schools and manufacturing plants, between the 1940s and 1979. Most of the Site buildings were constructed prior to 1940

and all building areas likely experience maintenance activities since original construction, which may have included PCB bulk product.

During the SSI paints were assessed in the northern portion of the main building, where several colors on the walls of the ground floor and first floor were observed to contain PCBs. Dust and residue on the paint is also PCB-contaminated likely from prior machining operations or from sampling methods capturing a portion of the underlying paint, however, at concentrations below applicable standards. These paints were likely applied during renovations conducted after initial construction, as evidenced by the layering of colors seen in some areas.

PCBs in bulk product can diffuse into adjacent brick and masonry and serve as a secondary source of contamination through back diffusion into non-PCB contaminated caulk and paint that may have been installed during building renovations. Underlying brick and masonry in the northern portion of the main building were assessed and observed to contain PCBs, albeit at concentrations below the cleanup standard, except at the location with the most elevated PCB concentrations in the paint.

Though PCBs have a low volatility, contaminated building materials can volatilize PCBs and potentially impact indoor air. Barriers including concrete and epoxy paint can be and have been installed over contaminated building materials in occupied portions of the main building to prevent direct contact and limit volatilization of PCBs from impacted materials. However, some PCB-contaminated building materials, which include concrete floor, brick walls, and parts of the ceiling, remain in unoccupied areas of the main building. Near term remedial efforts will include installation of concrete barriers and epoxy paint in areas where none exist.

Data from 2017 monitoring indicate that PCB barriers including epoxy paint and concrete caps are effectively mitigating exposure, including direct contact and inhalation, to PCB contamination. Indoor air monitoring has not been completed since 2017 and to continue to mitigate the risk of exposure, protective barriers will need to be monitored to ensure their property integrity.

PCBs were additionally analyzed and not detected in two sub-slab soil samples in Part B and the northern loading dock area. While limited in spatial distribution, the two samples suggest that there is not widespread PCB-impacted fill immediately below this portion of the building. Current plans for the Part B and NLD areas are to retain the existing building for storage and possibly commercial tenants.

5.5.2. Volatile Organic Compounds

Historic practices at the Site include the use and storage of hazardous substances, chlorinated solvents, and petroleum products. Chlorinated solvents are used in machine manufacturing as a degreasing agent and petroleum products are used as lubricants, penetrants, and fuel sources. Chlorinated solvents have been detected in groundwater beneath the main building (Part E) as well as the Office Area. Previous detections of PCE, TCE and their degradation products in soil gas and indoor air drove the installation of an SSD system for the Office Area to mitigate the risk from vapor intrusion.

The 2021 SSI sub-slab soil gas sampling in the northern areas of the main building detected both petroleum and chlorinated VOCs underlying the slab with chlorinated solvents PCE and TCE primarily detected beneath Part E and petroleum VOCs primarily detected in the northern loading dock and Part B on the first floor and southwest portion of the ground floor. Naphthalene was the only petroleum VOC detected above the non-residential standard.

The distribution of PCE and TCE concentrations in groundwater and sub-slab soil gas suggest multiple sources are contributing to sub-slab soil gas chlorinated VOC impacts. Groundwater concentrations of PCE

in the basement area have been non-detect in nearly all historic samples including the most recent sampling in 2017, however PCE is present in soil gas above the non-residential VIS suggesting a vadose zone source or migrating soil gas. Furthermore, while breakdown products cis-1,2-DCE and vinyl chloride have tended to be higher than TCE in groundwater samples near the Office Area, TCE has routinely been at a higher concentration than its breakdown products in groundwater below Part E suggesting different sources on the northern and southern portions of the Site.

Sub-slab soil gas data collected as part of the 2021 SSI, as well as historical use of the area, also suggest multiple sources maybe contributing to contamination beneath Part E. This is due to PCE and total chlorinated VOC concentrations tending to be higher closer the Black River (hydraulically downgradient) and TCE concentrations tending to be higher to the north. This distribution suggests that a TCE source may be present on the northern portion of Part E while a different PCE source is present somewhere closer to sub-slab soil gas location 100R-SG-07. Additionally, the presence of 1,1-DCA at high concentrations only near 100R-SG-06 suggests a limited vadose zone source. The presence of a historic sewer beath Part E, as discussed below, may also be contributing to the non-traditional distribution of chlorinated VOCs beath Part E.

Besides on-Site releases, potential sources of VOCs in the presumed hydraulically upgradient direction of the Site include the Gear Works, Inc. machine shop (72 Pearl Street), the former Vermont Machine Tool property (65 Pearl Street), and former Snow-White, Inc. dry cleaner (7 Morgan Street). Based on the proximity and position of the Site relative to the former dry cleaner and machine shops, potential releases of PCE could have resulted in migration of PCE and degradants to the Site via wastewater discharge to the sewer or preferential transport of soil vapors through utility corridors.

Specifically, the Site is serviced by a municipal sanitary sewer that traverses the eastern portion of the Site from north to south, following the former Opal Street and terminating at the pump station located at the southeast corner of the Site. Circa 2010, during the renovations of the Office Building, the sewer was slip-lined to repair cracks. A manhole access points is located within Part E of the ground floor of the main building. This sewer could have acted as a preferential pathway for upgradient vapors to migrate under the building or for chlorinated VOC-impacted wastewater to have leaked from the sewer system and impacted soil beneath the building.

Indoor air may be impacted by VOCs if soil vapor contamination is present at the Site and a complete vapor intrusion pathway exists, such as cracks and utility perforations in the slab. Potential releases to the concrete slab can result in diffusion of VOCs into the slab, which can serve as a long-term source of indoor air contamination via back diffusion. In Part E and Part B, where remedial actions have included the installation of a 4-inch concrete slab and polyethylene vapor barrier above the former manufacturing room floor, attenuation of soil gas contamination to indoor air is expected to be very high and risk of off gassing from the former machine room floor is likely negligible. Preferential pathways, where present, may still lead to impacts to indoor air and should be sealed during renovation activities of this space. In uncapped portions of Part NLD, the attenuation factor is likely lower. Renovations in this area, which are planned to include installation of a vapor barrier and concrete cap, will reduce the risk of vapor intrusion in this space.

5.5.3. Polycyclic Aromatic Hydrocarbons (PAHs) and Total Petroleum Hydrocarbons (TPH)

Polycyclic aromatic hydrocarbons (PAHs) are generated during the incomplete combustion of organic material, such as coal, petroleum products, and wood. PAHs are commonly found in surface soil in areas of cities and towns with long industrial histories and a high density of combustion sources. The Site has been used industrially since the 1850s. The nature of fill materials imported to the Site during development is unknown but based on history and location may contain coal ash, foundry fill, and other materials that contain PAHs. PAHs were not identified in the two sub-slab soil samples collected in the northern portion of

the Site building. Additionally, TPH was detected in one of the sub-slab soil samples at concentrations exceeding the EPA industrial RSL. The results suggest that a historic spill of a heavy petroleum product likely occurred prior to construction of this portion of the building. The detection does not currently pose a risk as it is located beneath the building slab, which, in the current redevelopment plans, will be capped with an additional 4 inches of concrete; therefore, access to impacted soil is non-existent. TPH can indicate other potential risks associated with petroleum VOCs, however, sub-slab soil gas samples have been collected and the results are addressed in the previous section.

5.5.4. Metals

Waste cutting oils or other petroleum products, chlorinated solvents, and other hazardous substances potentially improperly disposed of at the Site may have contained metals. Release mechanisms for these wastes are the same as described for VOCs.

Additionally, urban fill soils potentially used during Site redevelopment could contain metals at concentrations exceeding regulatory standards. Sub-slab soil in the northern loading dock and Part B area of the Site building detected numerous metals at concentrations below their respective standards. Historical groundwater sampling has also detected several metals, but only lead has exceeded the applicable standard. The results suggest that historic diffuse metal contamination may be present in soil on the Site but does not appear to be at concentrations that pose a risk to users. Additionally, much of the Site is covered by impermeable surfaces, including the building and parking lots that prevent direct contact.

5.6. Contaminant Distribution

Table 4, below, provides a summary of potential and known contaminants of concern for the Site relevant to the 2021 SSI work at the main building.

Table 4: Sensitive Receptor Evaluation

Potentially Affected Media	Potential Pathways	Potential Sensitive Receptors	Potential Level of Risk
Groundwater	Dissolved phase VOCs and other Site contaminants of concern migrating in groundwater	Downgradient Black River	Low – groundwater concentrations are low, and the only remaining groundwater production well is planned to be decommissioned. Impacts to the Black River are negligible given the low groundwater concentration and high flow rate of the river.
Sub-Slab and Surface Soil	Direct contact to impacted soils via dermal adsorption, ingestion, and inhalation	Construction workers	Low – Soil beneath the slab in the northern portion of the first-floor, slab-on-grade section of the main building has TPH detections above the EPA RSL and metals below the applicable standards. Sub-slab work is not currently anticipated in this area; however, additional assessment is recommended prior to any future work in this area.

Potentially Affected Media	Potential Pathways	Potential Sensitive Receptors	Potential Level of Risk
Indoor Air	Impact to indoor air from intrusion of VOC contaminated soil gas to on-site building.	Building occupants and visitors Construction workers	Unknown/Low – VOCs are present in soil gas at concentrations above the applicable sub-slab soil gas standard in the basement and the northern portion of the first floor, however, a 4-inch concrete cap and vapor barrier have already been installed across much of these areas, which is expected to significantly attenuate impacts from vapor intrusion. Further capping in the north end will enhance attenuation in these areas.
Building Materials	Direct contact to impacted bulk product Volatilization of PCBs from impacted bulk product to indoor air	Building occupants and visitors Construction workers	Low – PCBs have been detected in concrete and bulk product building materials in the areas of the 2021 SSI at concentrations exceeding the applicable standards. Under current conditions, there is no exposure to occupants. Corrective actions, including installation of engineered barriers, will prevent direct contact and limit potential impacts from off-gassing.

5.7. Nearby Sensitive Receptors

Using the Vermont Agency of Natural Resources (ANR) Natural Resources Atlas, a qualitative receptor analysis was completed to evaluate the occurrence of potential receptors relative to the Site.

5.7.1. Drinking Water Supplies

There are no public and twenty-four private drinking water supplies within 0.5-miles of the Site. Private drinking water supplies are depicted on Figure 2.

5.7.2. Surface Water and Groundwater Source Protection Areas

There are no surface water or groundwater source protection areas within 0.5 miles of the Site.

5.7.3. Buildings with Basements

Data regarding the presence of buildings with basements on adjoining properties is not readily available. We expect that residences nearby the Site have basements.

5.7.4. Wetlands

According to the ANR Natural Resources Atlas, there is one mapped Class II wetland within 0.5 mile of the Site, which includes the Black River corridor as it passes the Site (Figure 2).

5.7.5. Sensitive Ecological Areas

Sensitive ecological areas, including deer wintering yards (1), habitat blocks (3), significant natural communities (0), VT Fish and Wildlife managed lands (0), rare, threatened, or endangered species (0), uncommon species (0), and Indiana Bat hibernacula (0) were assessed within 0.5 mile of the Site using the ANR Natural Resources Atlas. Results are summarized in Table 5.

Table 5: Sensitive Ecological Areas

Resource ID	Resource Type	Size (acres)
DWA844	Deer Wintering Area	115
3352	Habitat Block	1,911
3354	Habitat Block	863
3453	Habitat Block	5,831

6. Conclusions and Recommendations

Based on the findings of the SSI, Stone makes the following conclusions:

- PCBs Bulk Products are present as various building material within the northern basement and northern loading dock areas of the main building.
 - Paint on walls within the investigated area contain PCB Bulk Product (EPA TSCA Division bulk product criteria of 50 mg/Kg).
 - PCBs in bulk product paint have diffused into underlying masonry and exceed the TSCA high occupancy walkway criteria of 1 mg/Kg where PCBs in paint are the highest (i.e., beige-grey paint on the first floor with PCB concentrations of 198 mg/Kg).
 - Dust or oil-residue present on the paint in some of the investigated area is PCB-contaminated likely from prior machining operations, but at concentrations below the applicable cleanup level.
 - Non-porous surfaces associated with the northern loading dock elevator contain PCBs that exceed the EPA TSCA division walkaway criteria due to former use of PCB-containing lubricating oil.
 - Petroleum hydrocarbons are present in sub-slab soil underlying the northwestern portion (Part B) of the Site building slab.
 - TPH exceeded the US EPA Industrial Regional Screening Level (RSL) for the aliphatic medium hydrocarbon range in one sub-slab soil sample.
 - PAHs and PCBs were not detected above laboratory reporting limits and metals are present in the sub-slab soil at concentrations below regulatory standards.
 - The electrical conduit previously identified within the former Part A machine room (currently the upper parking lot) is potentially present within the northern end of the Site building according to historical drawings.
- Petroleum and chlorinated VOCs are present in sub-slab soil vapor in the north end of the first floor and basement areas of the main building. Petroleum VOCs slightly exceed the non-resident VIS for sub-slab soil gas in both areas and chlorinated VOCs exceed the VIS in the basement area only.
 - Naphthalene, 1,1-DCA, PCE, and TCE exceed their respective non-resident VIS.
 - The distribution of PCE and TCE in sub-slab soil gas suggest multiple sources may be contributing the contamination including potential upgradient sources.
 - The impact to indoor air from sub-slab soil gas, while unknown, is expected to be low given the previously installed vapor barrier and concrete caps.

SSI results of PCB concentrations in Site building materials will be incorporated into an amendment of the Site Partial CAP to support near term redevelopment objectives and an update to the US EPA TSCA Division. Planned corrective actions, as proposed in the 2011 CAP Amendment (Stone, 2011), will achieve regulatory compliance with respect to PCBs in Site building materials.

Stone recommends assessment of indoor air quality to confirm that vapor intrusion is not occurring. A full Site CAP, including areas of concern related to other areas of the Site, will follow further redevelopment planning of relevant areas of the Site.

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Appendix A - Figures

Figure 1: Location Map

Figure 2: Vicinity Map

Figure 3: Site Map

Figure 4: Site Map – Lower Levels

Figure 5: Site Map – Upper Levels

Figure 6a: Site Map with Historic PCB Analytical Results – Ground Floor

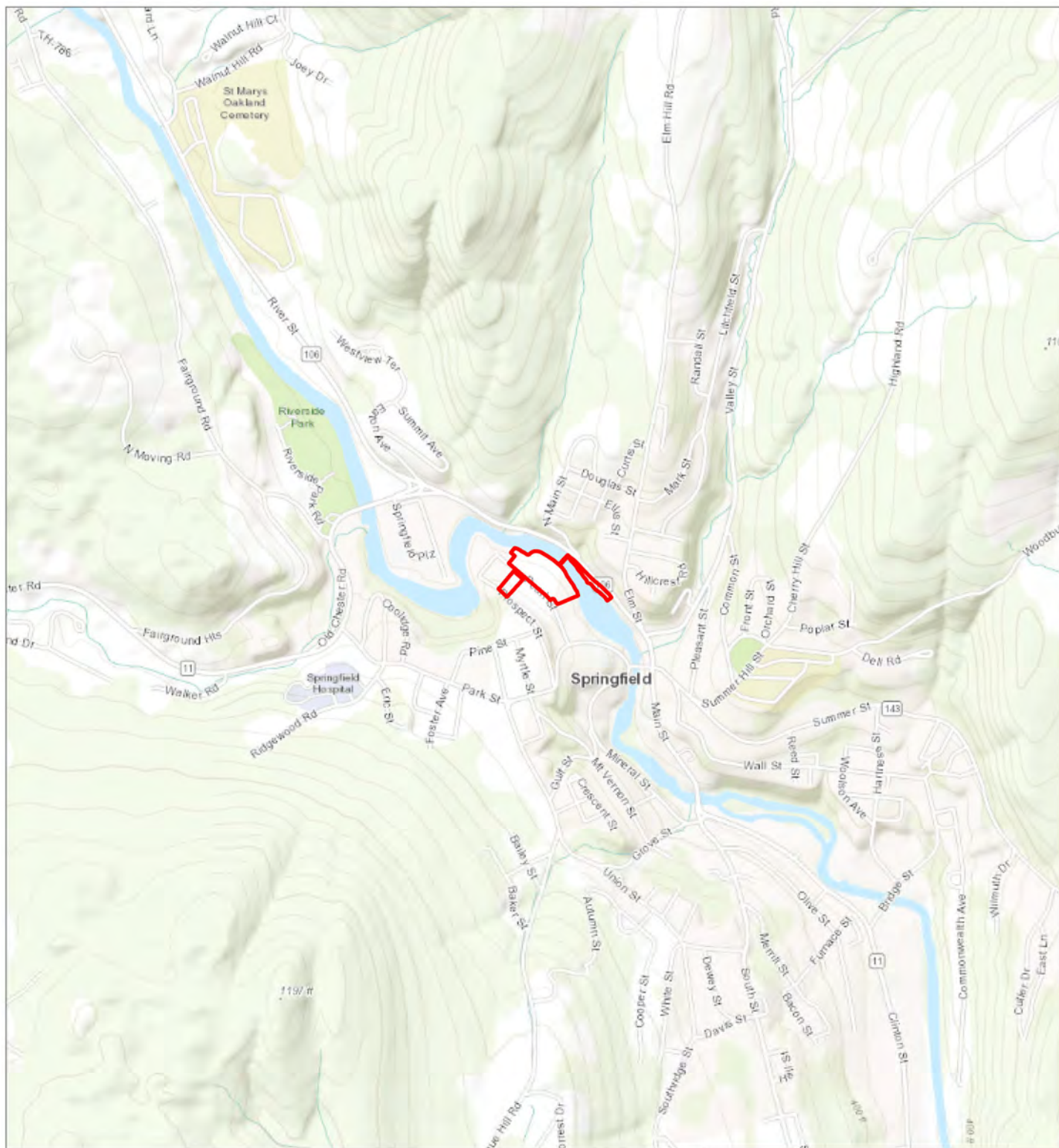
Figure 6b: Site Map with Historic PCB Analytical Results – First Floor

Figure 7a: SSI PCB Assessment Results – Ground Floor

Figure 7b: SSI PCB Assessment Results – First Floor

Figure 8a: Concentration of Petroleum VOCs in Soil Gas

Figure 8b: Concentration of Chlorinated VOCs in Soil Gas



LEGEND

Site Boundary

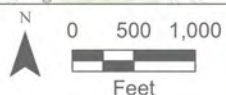


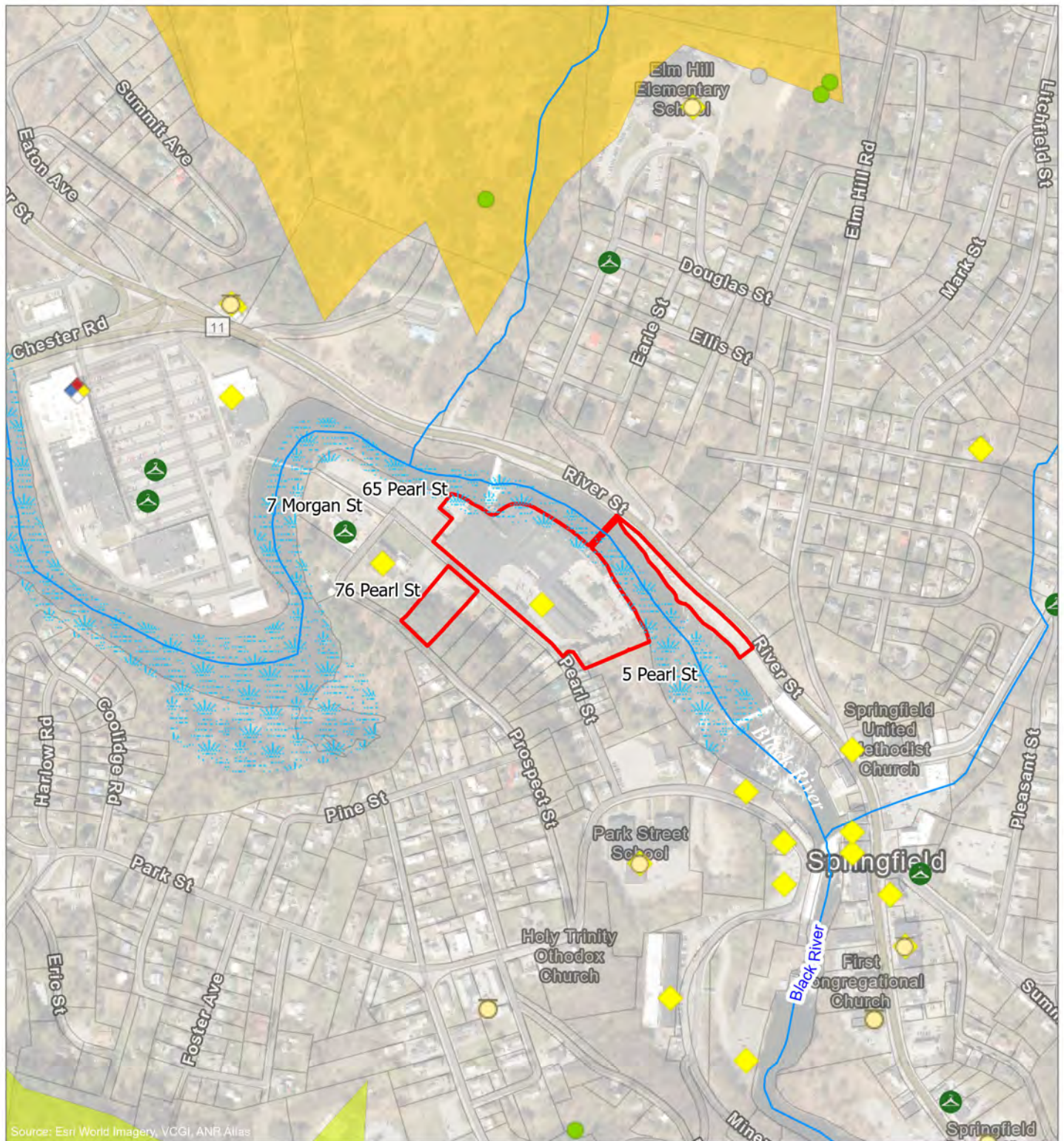
Figure 1: Location Map

100 River Street
Springfield, Vermont

Prepared for ICP Springfield SPE,
LLC



STONE ENVIRONMENTAL



Source: Esri World Imagery, VCGI, ANR Atlas

LEGEND

- | | |
|---------------------------------------|------------------------------------|
| Parcel Boundaries | VT Significant Wetlands Inventory |
| 100 River Street Site Boundary | Underground Storage Tank (working) |
| Private Wells | Hazardous Waste Site |
| screen digitized | Hazardous Waste Generators |
| E911 Address | Dry Cleaner |
| Habitat Blocks and Wildlife Corridors | |
| 6 | |
| 4 | |

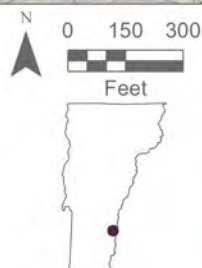


Figure 2: Vicinity Map

100 River Street
Springfield, Vermont

Prepared for ICP Springfield SPE,
LLC

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LEGEND

- | | | | |
|--|------------------------------|--|-------------------|
| | 100 RIVER ST PARCEL BOUNDARY | | PARKING LOT |
| | PARCEL BOUNDARY | | SITE FEATURES |
| | FLOOR BUILDING LAYOUT | | STRUCTURAL COLUMN |

Sources:
Lidar and Parcel boundaries - VCGI
Stone Environmental Inc. conducted a building survey 7/28/2020 of cafeteria building and 65 Pearl Street to create floor plan layouts.
A building survey was completed 4/1/2020 of 100 River Street building to create floor plan layout.

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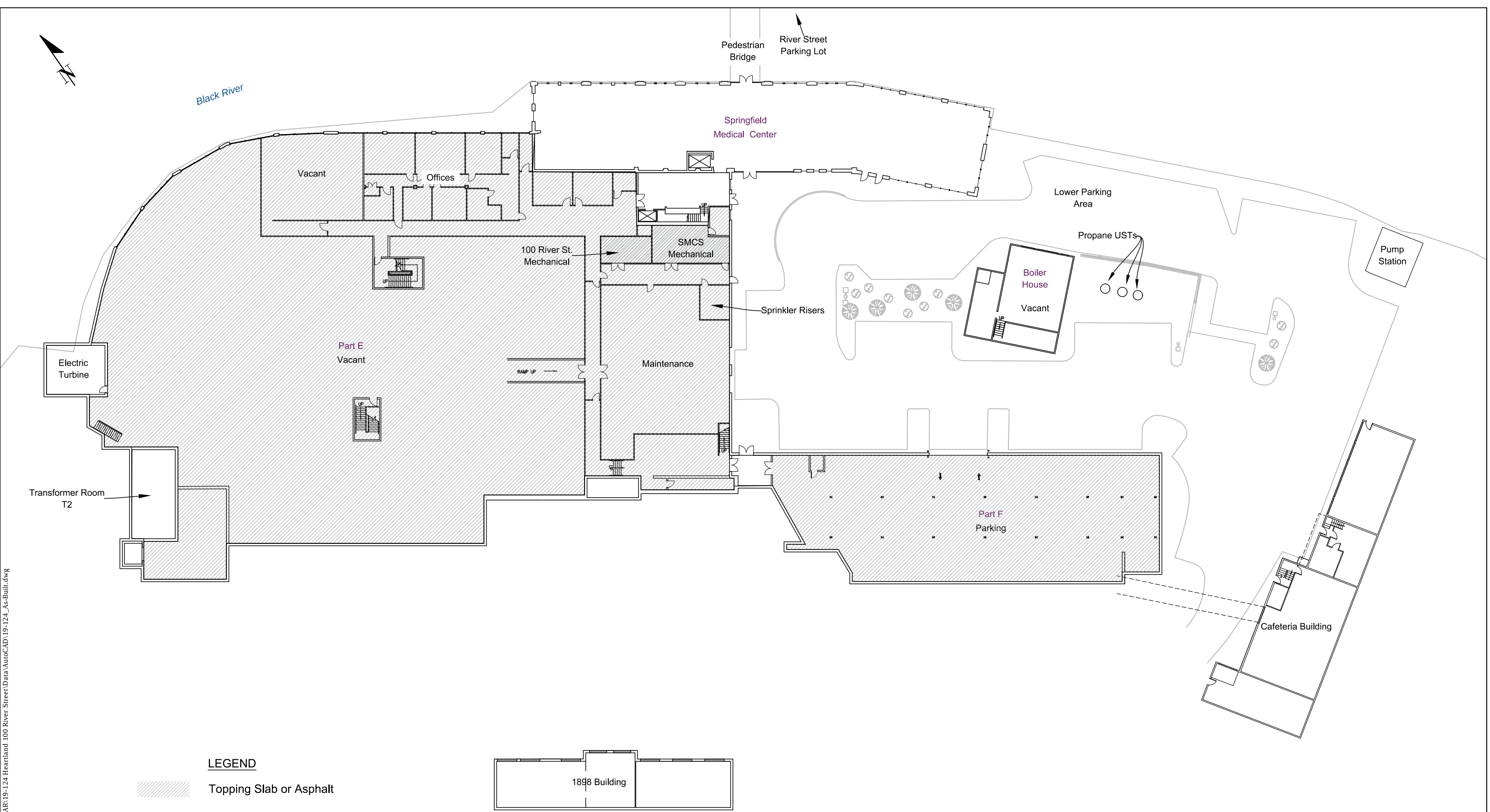
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DRAWN ON: 1/30/2025							
DRAWN BY: LBR							
CHECKED ON: 1/30/2025							
CHECKED BY: DTV							
PROJECT NO: 19-124							



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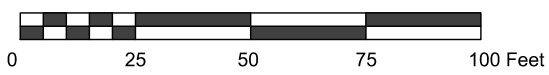
SITE MAP
100 RIVER STREET
100 RIVER STREET VENTURES, LLC
SPRINGFIELD VERMONT



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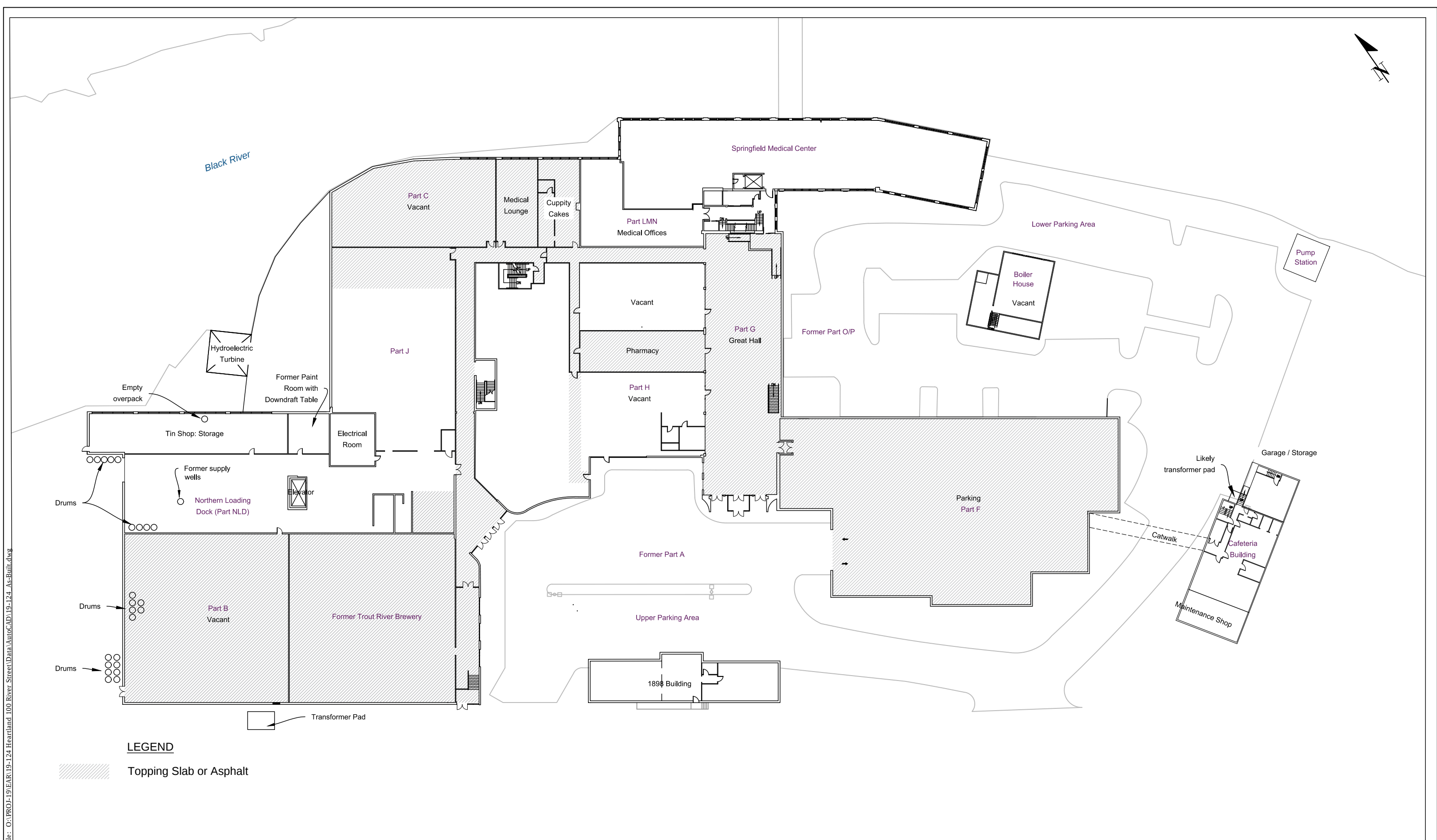
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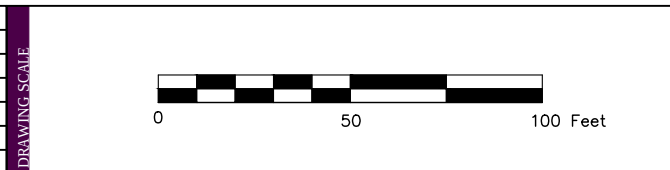
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100 River Street - Lower Levels
Phase I ESA
100 River Street
Springfield Vermont



File: O:\PROJ-19\19-124 Heartland 100 River Street\19-124 As-Built.dwg

DRAWING CREDITS	#	Date	Drwn	Chk'd	App'd	Description
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	2	7/2/2020	LBR			Drawn By: LBR
	3	7/2/2020	LJR			Checked On: 7/2/2020
	4	7/2/2020	LJR			Checked By: LJR
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	3					
	4					
	5					

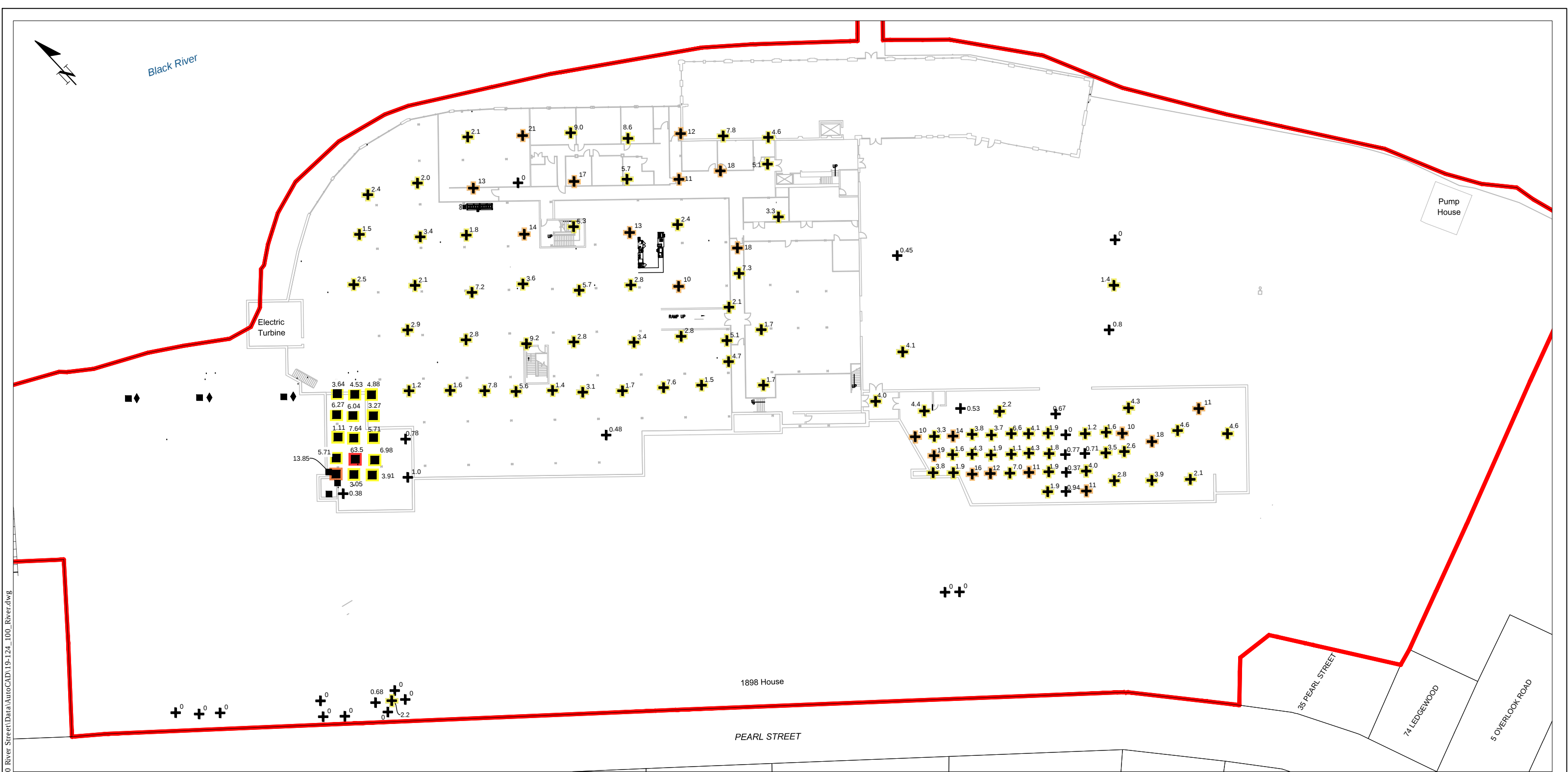


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100 River Street - Upper Levels
Phase I ESA
100 River Street
Springfield Vermont

FIGURE NO. **5**



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LEGEND

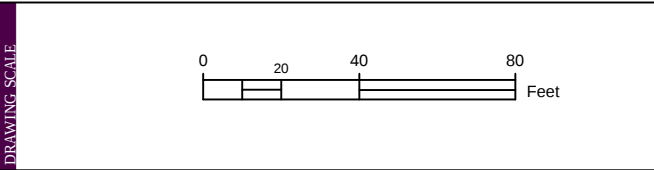
- SITE BOUNDARY
- PARCEL BOUNDARY
- GROUND FLOOR BUILDING LAYOUT
- PCB SAMPLE
- WIPE SAMPLE

- Previous PCB Sample Concentrations**
- Results < 1 mg/Kg or µg/wipe
 - Results 1 - 10 mg/Kg or µg/wipe
 - Results 10 - 49 mg/Kg or µg/wipe
 - Results > 50 mg/Kg or µg/wipe
- Total PCB concentration displayed
- Wipe concentrations reported in ug/wipe

Notes:
Concrete sample results shown include those that have been removed during corrective actions.

Sources:
Vermont Center of Geographic Information - Parcel Boundaries, 1' Contours derived from 2013 - 2017 QL2 lidar data - Statewide
PCB data with callouts displaying sample name and concentration results collected by Stone Environmental Inc., 9/3/10
PCB Data with concentration results only collected by Johnson Company Inc prior to 9/3/10.

DRAWING CREDITS	#	Date	Drwn	Chk'd	App'd	Description
REVISIONS						

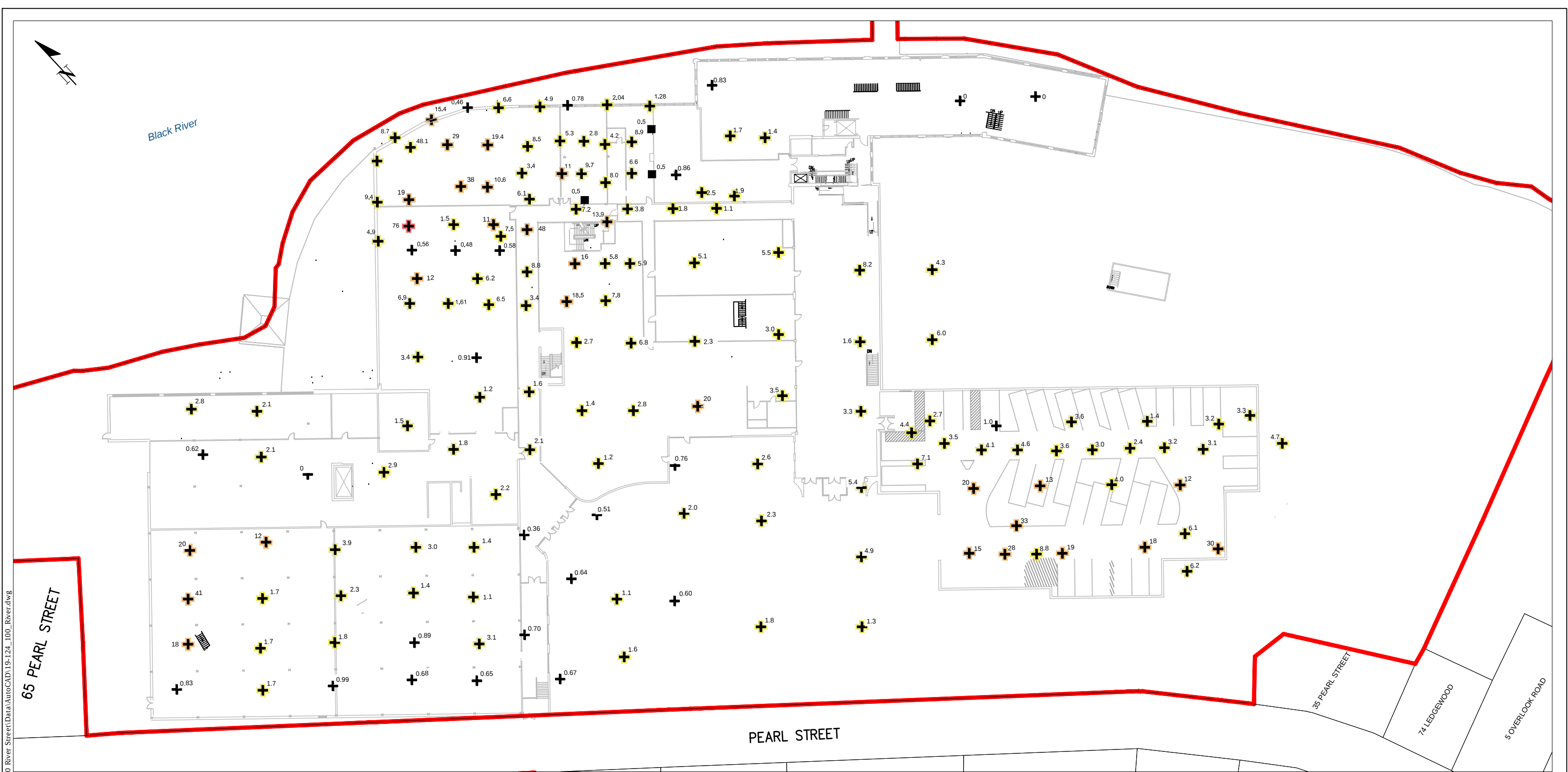


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SITE MAP WITH HISTORIC
PCB ANALYTICAL RESULTS - GROUND FLOOR
100 RIVER STREET
SPRINGFIELD VERMONT

FIGURE NO. **6a**



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- SITE BOUNDARY
- PARCEL BOUNDARY
- SECOND FLOOR BUILDING LAYOUT

- +

PCB SAMPLE
- WIPE SAMPLE

- Previous PCB Sample Concentrations

+

Results < 1 mg/Kg

+

Results 1 - 10 mg/Kg

+

Results 10 - 49 mg/Kg

+

Results ≥ 50 mg/Kg

-

Total PCB concentration displayed

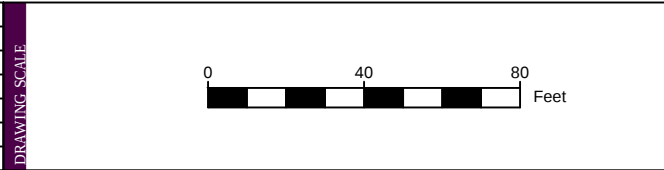
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Wipe concentrations reported in ug/wipe

Notes:
Concrete sample results shown include those that have been removed during corrective actions.

Sources:
Vermont Center of Geographic Information - Parcel Boundaries, 1' Contours derived from 2013 - 2017 QL2 lidar data - Statewide
PCB data collected by Stone Environmental Inc., 9/3/10 and Johnson Company Inc prior to 9/3/10.

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Project No.: 19-124						

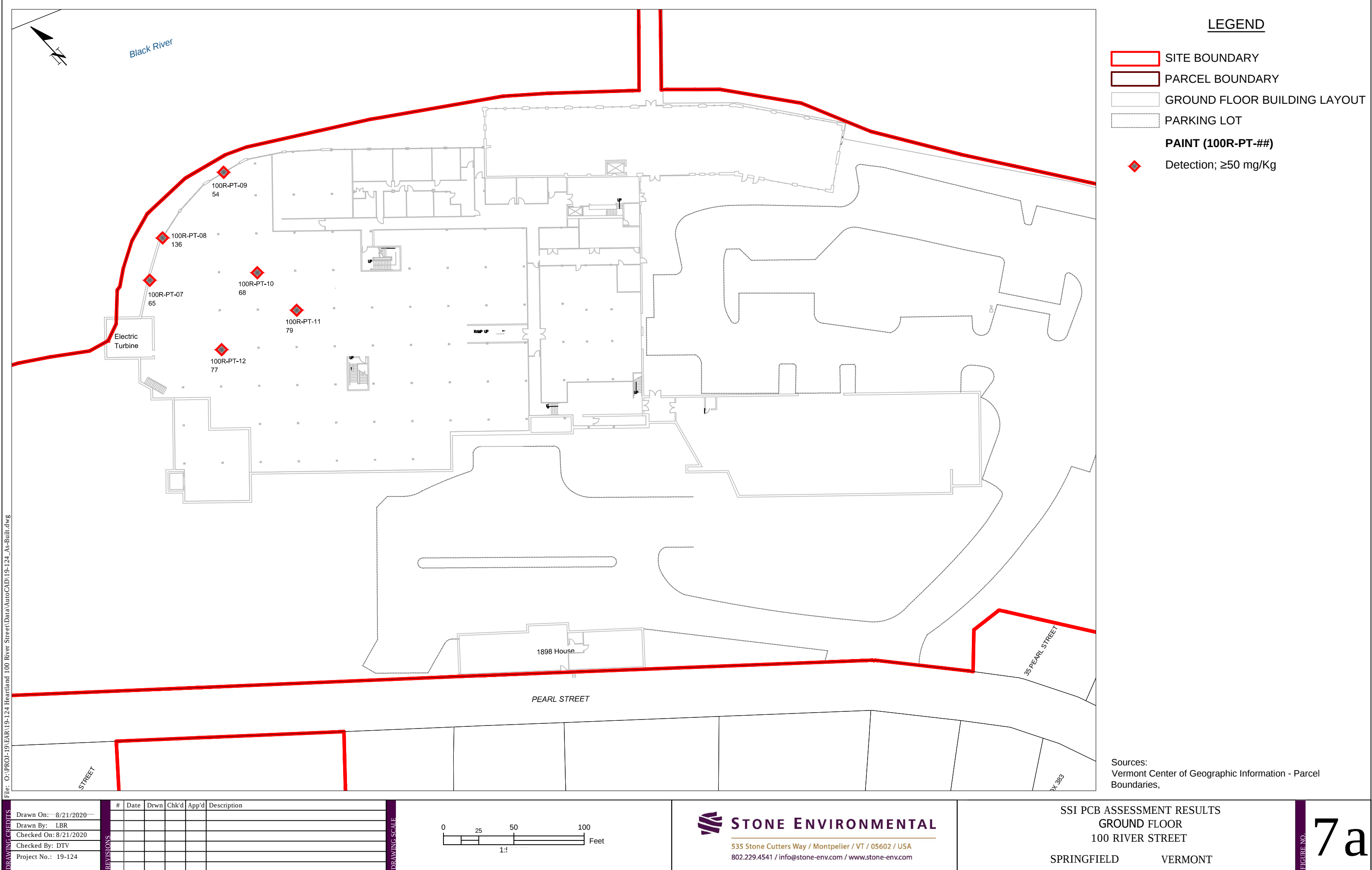


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SITE MAP
WITH PCB ANALYTICAL RESULTS - FIRST FLOOR
100 RIVER STREET
SPRINGFIELD VERMONT

FIGURE NO. 6b



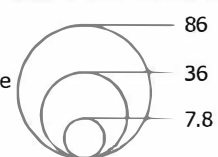


LEGEND



- 1,2,4-Trimethylbenzene
- Benzene
- Ethylbenzene
- Naphthalene

Sum of selected Fields



Soil Gas Sample Location

Basement (Ground Floor) Outline

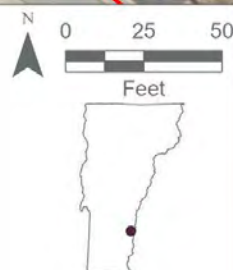


Figure 8a: Concentration of Petroleum VOCs in Soil Gas

100 River Street
Springfield, Vermont

Prepared for ICP Springfield SPE, LLC

STONE ENVIRONMENTAL

Notes:
 Only analytes with exceedances shown.
 Units in $\mu\text{g}/\text{m}^3$ - micrograms per cubic meter
 Bold results indicate an exceedance of the residential enforcement standard.
 Red results indicate an exceedance of the non-residential enforcement standard.

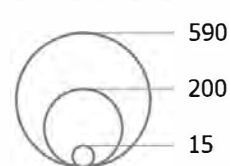


LEGEND



- Carbon Tetrachloride
- Tetrachloroethylene
- Trichloroethylene

Sum of selected Fields



Soil Gas Sample Location

Basement (Ground Floor) Outline

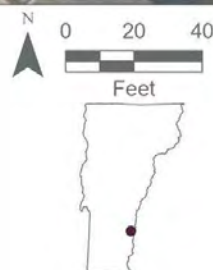


Figure 8b: Concentration of Chlorinated VOCs in Soil Gas

100 River Street
Springfield, Vermont

Prepared for ICP Springfield SPE, LLC

STONE ENVIRONMENTAL

Notes:
 Only analytes with exceedances shown.
 Units in µg/m³ - micrograms per cubic meter
 Bold results indicate an exceedance of the residential enforcement standard.
 Red results indicate an exceedance of the non-residential enforcement standard.

Appendix B: Field Notes

OBSERVATIONS AND REMARKS

Project Name/Description:

65 Pearl, 5 Pearl, 100 River St
Building materials Assessment
Phase II

STONE ENVIRONMENTAL

535 Stone Cutters Way / Montpelier / VT / 05602 / USA
802.229.4541 / info@stone-env.com / www.stone-env.com

SEI Project #:

19-124

Client/Sponsor:

Integrity

- 745 - SVR + DTV on-site, LSR to follow
- objective - building materials sampling at all 3 properties
- Collected 2nd flr

100R-PT-06	at	0913	new white over beige
100R-PT-05	at	0920	beige paint
100R-PT-04	at	0928	beige paint
100R-WP-01	at	0942	beige
100R-PT-01	at	0950	beige
100R-WP-02	at	1005	beige
100R-PT-02	at	1008	grey-beige
100R-WP-03	at	1010	" "
100R-PT-05	at	1040	" "
100R-MS-01	at	1020	
100R-WP-03-FA	at	1050	
100R-MS-02	at	1031	
100R-PT-03-FA	at	1050	grey (dirty) - beige
EB-062321	at	1055	
100R-MS-03	at	1101	
100R-MS-03-FA	at	1101	
- 1st flr

100R-PT-07	at	1153	white paint
100R-PT-08	at	1158	dk green paint
100R-PT-09	at	1208	dk green
100R-PT-10	at	1245	dk green
100R-PT-11	at	1254	light green
100R-PT-12	at	1310	white
- 65P-WP-01 at 1407
- 65P-PT-01 at 1450

Signed: Pat RattDate: 6/23/21Page: 1 of 2

OBSERVATIONS AND REMARKS

Project Name/Description:

65 Pearl, 5 Pearl, 100 River
St Building Materials
Assessment - Phase II



STONE ENVIRONMENTAL

535 Stone Cutters Way / Montpelier / VT / 05602 / USA
802.229.4541 / info@stone-env.com / www.stone-env.com

SEI Project #:

19-124

Client/Sponsor:

Integrity

tes

PT SYR 6/23/21
100R-~~WP~~-06 46' 4" on NW wall, to SW wall along Pearl St
PT
100R-~~WP~~-05 27' 5" 48' 9" on NW wall, to NE exterior wall
100R-PT-04 2' 0" to NE exterior wall
100R-WP/PT/MS-01 21' 9" to NW wall
100R-WP/PT/MS-02 60' 0" to NW wall
100R-WP/PT/MS-03 103' 11" to NW wall
100R-PT-07 44' 9" 66' 8" to to bathroom wall (see figure), SYR 6/23/21
to corner where rounded wall meets
21' 9" NE wall, to E corner of turbine wall
100R-PT-08 41' 0" to former bathroom wall
48' 5" to E corner of turbine wall
100R-PT-09 96' 8" to E corner of turbine wall
100R-PT-10 73' 10" to NE exterior wall
86' 0" to NW exterior wall
100R+PT-11 48' 11" to SW wall, 96' 0" to SW wall
of interior wall, 114' 0" to NW exterior wall
100R-PT-12 71' 7" to SW interior wall, 66' 2" to SE
electrical turbine wall

• off-site @ 1700

Signed:

Pat *North*

Date:

6/23/21 -
6/24/21

OBSERVATIONS AND REMARKS

Project Name/Description:

100 River St - Phase II + EC&A
Soil Gas

STONE ENVIRONMENTAL

535 Stone Cutters Way / Montpelier / VT / 05602 / USA
802.229.4541 / info@stone-env.com / www.stone-env.com

SEI Project #:

19-124

Client/Sponsor:

Integrity

6/29/21

- SYR + LBR on-site @ 815
- objective: Soil gas assessment at all 3 properties
- exterior soil gas samples collected at 5 + 65 Pearl
- interior soil gas samples collected from 2nd floor at 100 River St.
- DIV - collected two soil samples from under 2nd flr slab at 100 River St.
- see field forms for details
- off-site @ 1700

6/30/21

- SYR + LBR on-site @ 830
- objective: Soil gas assessment at interior locations of 65 Pearl + 100 River St.
- 830 - prepared + began sub-slab soil gas sampling on 1st floor at 100 River St.
- 1130 - LBR locked drill bit in slab
- 1200 - LBR called DIV, trouble-shooting over phone, unable to retrieve bit from slab, put coned over bit to be retrieved at 1315 - SYR + LBR moved to 65 Pearl St, attempted to bore through slab w/ 1.5" drill bit → unsuccessful, possibly due to size of bit, dull bit, + composition of concrete, trouble-shooting over phone w/ DIV
- 1415 - SYR offset to newer-looking concrete patch, LBR to hardware store to try to purchase 5/8" bit
 - SYR met w/ resistance, unable to advance past ~4" into concrete
 - LBR - no 5/8" bit available at hardware store
- 1515 - SYR + LBR packed up + prepared for courier
- 1600 - met courier, off site

Signed: _____

Date: _____

6/29/21 - 6/30/21

Page: 1 of 1

Soil Gas Sample Collection Record

Soil Gas Point ID: 100R-SG-01

Project Name: Integrity Springfield

Project #: 19-124

Site Location: 100 River St, Springfield VT

Date: 6/29/21

Weather Conditions: 90's sunny

Rain within last 24 hours? (y/n): Y Amount: 0.01"

Sampler(s): LAB/STY/DTV

1. SAMPLE LOCATIONS AND COLLECTION METHODOLOGY INFORMATION

Description of soil gas point location: see below

Soil Gas point installation method (check): ☐ AMS Soil Vapor Probe ☒ Cox-Colvin Vapor Pin

Sample depths (ft): ~10"

Sample collection method: SUMMA

Leak Test Method (Pass/Fail): Water dam - pass Shut

Summa Canister ID: 2417 Flow Controller ID: 4319 Sample Period: 30 mins

Contract Laboratory: Con-Test - Pace Analytical

2. SAMPLE INFORMATION:

PID Reading: 1.3 (ppm v/v)

CO Reading: NA

CO₂ Reading: NA O₂ Reading: NA Differential Pressure _____ ("WC)

Sample Name	Sample Start Time	Sample Stop Time	Canister Vacuum Start ("Hg)	Canister Vacuum End ("Hg)	Flow Rate (mL/min)	Analysis Required
100R-SG-01	1556	1623	-30	-2		TO-15
						TO-15

Comments:

44' 9" to N wall, 47' 1" to W wall

Signature: L. Raynak

Date: 6/29/21

Soil Gas Sample Collection Record

Soil Gas Point ID: 100R-SG-02

Project Name: Integrity Springfield

Project #: 19-124

Site Location: 100 River St, Springfield VT

Date: 6/29/21

Weather Conditions: 90's sunny

Rain within last 24 hours? (y/n): AY Amount: 0.01"

Sampler(s): LBR/SYR

1. SAMPLE LOCATIONS AND COLLECTION METHODOLOGY INFORMATION

Description of soil gas point location: see below

Soil Gas point installation method (check): ☐ AMS Soil Vapor Probe ☒ Cox-Colvin Vapor Pin

Sample depths (ft): 4"

Sample collection method: SUMMA

Leak Test Method (Pass/Fail): Water dam-pass; shut-in-pass

Summa Canister ID: 2431 Flow Controller ID: 4323 Sample Period: 30 mins

Contract Laboratory: Con-Test - Pace Analytical

2. SAMPLE INFORMATION:

PID Reading: 305.7 (ppm v/v)

CO Reading: NA

CO₂ Reading: NA O₂ Reading: NA Differential Pressure _____ ("WC)

Sample Name	Sample Start Time	Sample Stop Time	Canister Vacuum Start ("Hg)	Canister Vacuum End ("Hg)	Flow Rate (mL/min)	Analysis Required
<u>100R-SG-02</u>	<u>1611</u>	<u>1642</u>	<u>-30</u>	<u>-3</u>		<u>TO-15</u>
						<u>TO-15</u>

Comments:

71' 8" to N wall, 66' 10" to E exterior wall

Signature: J. Raynick

Date: 6/29/21

Soil Gas Sample Collection Record

Soil Gas Point ID: 100R-SG-03

Project Name: Integrity Springfield

Project #: 19-124

Site Location: Springfield, VT

Date: 6/30/21

Weather Conditions: 90s, Sunny

Rain within last 24 hours? (y/n): N Amount: —

Sampler(s): SVR, LBR

1. SAMPLE LOCATIONS AND COLLECTION METHODOLOGY INFORMATION

Description of soil gas point location: @ proposed

Soil Gas point installation method (check): ☐ AMS Soil Vapor Probe ☒ Cox-Colvin Vapor Pin

Sample depths (ft): ~1

Sample collection method: SUMMA

Leak Test Method (Pass/Fail): PASS

Summa Canister ID: 2438 Flow Controller ID: 4355 Sample Period: 30 min

Contract Laboratory: Con-Test – Pace Analytical

2. SAMPLE INFORMATION:

PID Reading: 7.5 (ppm v/v)

CO Reading: —

CO₂ Reading: — O₂ Reading: — Differential Pressure 0.216 ("WC)

Sample Name	Sample Start Time	Sample Stop Time	Canister Vacuum Start ("Hg)	Canister Vacuum End ("Hg)	Flow Rate (mL/min)	Analysis Required
<u>100R-SG-03</u>	<u>11:01</u>	<u>11:53</u>	<u>-29</u>	<u>-3</u>		TO-15
						TO-15

Comments:

Background PID = 0.2 ppm

Signature: Pat Rat

Date: 6/30/21

Soil Gas Sample Collection Record

Soil Gas Point ID: 100R-SG-04

Project Name: Integrity Springfield

Project #: 19-124

Site Location: Springfield, VT

Date: 6/30/21

Weather Conditions: 90s, sunny

Rain within last 24 hours? (y/n): N Amount: —

Sampler(s): SIR, LBR

1. SAMPLE LOCATIONS AND COLLECTION METHODOLOGY INFORMATION

Description of soil gas point location: @ proposed

Soil Gas point installation method (check): ☐ AMS Soil Vapor Probe ☒ Cox-Colvin Vapor Pin

Sample depths (ft): ~1

Sample collection method: SUMMA

Leak Test Method (Pass/Fail): PASS

Summa Canister ID: 2577 Flow Controller ID: 4320 Sample Period: 30 min

Contract Laboratory: Con-Test - Pace Analytical

2. SAMPLE INFORMATION:

PID Reading: 7.3 (ppm v/v)

CO Reading: —

CO₂ Reading: — O₂ Reading: — Differential Pressure: -0.003 WC

Sample Name	Sample Start Time	Sample Stop Time	Canister Vacuum Start ("Hg)	Canister Vacuum End ("Hg)	Flow Rate (mL/min)	Analysis Required
100R-SG-04	1108	1141	-27	0	—	TO-15
100R-SG-04-FD	1108	1141	-27	0	—	TO-15
100R-SG-04	1226	1254	-28	-3	—	TO-15

Comments:

Background PID = 2.0 ppm

Not analyzed as final canister vacuum = 0

Recollected @ 1226 + submitted for analysis

Signature: [Signature] Date: 6/30/21

Soil Gas Sample Collection Record

Soil Gas Point ID: 100R-SG-05

Project Name: ICP Springfield

Project #: 19-124

Site Location: 100 River St

Date: 7/9/21

Weather Conditions: _____

Rain within last 24 hours? (y/n): NA Amount: NA

Sampler(s): LAR / DTV

1. SAMPLE LOCATIONS AND COLLECTION METHODOLOGY INFORMATION

Description of soil gas point location: _____

Soil Gas point installation method: Vapor pin

Sample depths (ft): 12"

Sample collection method: Summa

Leak Test Method (Pass/Fail): Water dam - ; shut-in -

Summa Canister ID: 2359 Flow Controller ID: 4125 Sample Period: ~30 mins

Contract Laboratory: Con-Test

2. SAMPLE INFORMATION:

PID Reading: 3.3 (ppm v/v) CO Reading: N/A

CO₂ Reading: N/A O₂ Reading: N/A Differential Pressure: -0.002 ("WC)

Sample Name	Sample Start Time	Sample Stop Time	Canister Vacuum Start ("Hg)	Canister Vacuum End ("Hg)	Flow Rate (mL/min)	Analysis Required
<u>100R-SG-05</u>	<u>934</u>		<u>-27</u>			<u>TD-15</u>

Comments:

Signature: J. Raynor Date: 7/9/21

Soil Gas Sample Collection Record

Soil Gas Point ID: 100R-SG-06

Project Name: ICP Springfield

Project #: 19-124

Site Location: 100 River St

Date: 7/9/21

Weather Conditions: _____

Rain within last 24 hours? (y/n): NA Amount: NA

Sampler(s): LBR / DTV

1. SAMPLE LOCATIONS AND COLLECTION METHODOLOGY INFORMATION

Description of soil gas point location: _____

Soil Gas point installation method: Vapor pin

Sample depths (ft): 12"

Sample collection method: Summa

Leak Test Method (Pass/Fail): Water dam - Shut-in -

Summa Canister ID: 2388 Flow Controller ID: 4261 Sample Period: ~30 mins

Contract Laboratory: Con-Test

2. SAMPLE INFORMATION:

PID Reading: 1.8 (ppm v/v) CO Reading: N/A

CO₂ Reading: N/A O₂ Reading: N/A Differential Pressure: -0.008 ("WC)

Sample Name	Sample Start Time	Sample Stop Time	Canister Vacuum Start ("Hg)	Canister Vacuum End ("Hg)	Flow Rate (mL/min)	Analysis Required
<u>100R-SG-06</u>	<u>915</u>	<u>944</u>	<u>-36</u>	<u>-4</u>		<u>TG+S</u>

Comments: _____

Signature: L. Raynor

Date: 7/9/21

Soil Gas Sample Collection Record

Soil Gas Point ID: 100R-SG-07

Project Name: ICP Springfield

Project #: 19-124

Site Location: 100 Rivers St

Date: 7/9/21

Weather Conditions: _____

Rain within last 24 hours? (y/n): NA Amount: NA

Sampler(s): LRR / DTV

1. SAMPLE LOCATIONS AND COLLECTION METHODOLOGY INFORMATION

Description of soil gas point location: _____

Soil Gas point installation method: Vapor pin

Sample depths (ft): 12"

Sample collection method: Vapor Summa

Leak Test Method (Pass/Fail): Water dam-pass; slant in-pass

Summa Canister ID: 2437 Flow Controller ID: 4242 Sample Period: ~30 mins

Contract Laboratory: Con-Test

2. SAMPLE INFORMATION:

PID Reading: 0.6 (ppm v/v) CO Reading: N/A

CO₂ Reading: N/A O₂ Reading: N/A Differential Pressure: 0.000 ("WC)

Sample Name	Sample Start Time	Sample Stop Time	Canister Vacuum Start ("Hg)	Canister Vacuum End ("Hg)	Flow Rate (mL/min)	Analysis Required
<u>100R-SG-07</u>	<u>857</u>	<u>927</u>	<u>-28</u>	<u>-3</u>		<u>TO-15</u>

Comments:

Signature: L. Raynal

Date: 7/9/21

Soil Gas Sample Collection Record

Soil Gas Point ID: 100R-SG-08

Project Name: ICP Springfield Project #: 19-124

Site Location: 100 River St. Date: 7/9/21

Weather Conditions: _____

Rain within last 24 hours? (y/n): NA Amount: NA

Sampler(s): LBR

1. SAMPLE LOCATIONS AND COLLECTION METHODOLOGY INFORMATION

Description of soil gas point location: _____

Soil Gas point installation method: Vapor pin

Sample depths (ft): ~12"

Sample collection method: Summa

Leak Test Method (Pass/Fail): Water dam-pass; ^{shut-in} leak test - pass

Summa Canister ID: 2269 Flow Controller ID: 4111 Sample Period: ~30 mins

Contract Laboratory: Con-Test

2. SAMPLE INFORMATION:

PID Reading: 0.3 (ppm v/v) CO Reading: N/A

CO₂ Reading: N/A O₂ Reading: N/A Differential Pressure 0.000 ("WC)

Sample Name	Sample Start Time	Sample Stop Time	Canister Vacuum Start ("Hg)	Canister Vacuum End ("Hg)	Flow Rate (mL/min)	Analysis Required
<u>100R-SG-08</u>	<u>839</u>	<u>911</u>	<u>-36</u>	<u>-3</u>		<u>TO-15</u>

Comments:

Signature: J. Rayner Date: 7/9/21

Soil Gas Sample Collection Record

Soil Gas Point ID: 100R-SG-09

Project Name: Integrity Springfield

Project #: 19-124

Site Location: Springfield, VT

Date: 6/30/21

Weather Conditions: 90s, sunny

Rain within last 24 hours? (y/n): N

Amount: -

Sampler(s): SLR, LBR

1. SAMPLE LOCATIONS AND COLLECTION METHODOLOGY INFORMATION

Description of soil gas point location: @ proposed

Soil Gas point installation method (check): ☐ AMS Soil Vapor Probe ☒ Cox-Colvin Vapor Pin

Sample depths (ft): ~1

Sample collection method: SUMMA

Leak Test Method (Pass/Fail): pass

Summa Canister ID: 2405

Flow Controller ID: 4097

Sample Period: 30 min

Contract Laboratory: Con-Test - Pace Analytical

2. SAMPLE INFORMATION:

PID Reading: 2.5 (ppm v/v)

CO Reading: -

CO₂ Reading: -

O₂ Reading: -

Differential Pressure 0.000 ("WC)

Sample Name	Sample Start Time	Sample Stop Time	Canister Vacuum Start ("Hg)	Canister Vacuum End ("Hg)	Flow Rate (mL/min)	Analysis Required
<u>100R-SG-09</u>	<u>1128</u>	<u>1157</u>	<u>-27</u>	<u>-3</u>		TO-15
						TO-15

Comments:

Background PID = 1.5 ppm, value peaked at 11 ppm when PID held up to water dam / PVC collar

Signature: Pat RMT

Date: 6/30/21

Appendix C: Data Summary Tables

Table C-1
Concentrations of Polychlorinated Biphenyls in Bulk Building Materials

Sample ID		TSCA: Bulk Product	100R-PT-01		100R-PT-02		100R-PT-03		100R-PT-03-FD		100R-PT-04		100R-PT-05		RPD
			Beige Paint		Beige Paint		Grey-Beige Paint		Grey-Beige Paint		Beige Paint		Beige Paint		
Sample Date	CAS#		6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	
		(mg/Kg)													
Aroclor-1016	12674-11-2	50	2.4 U		4.8 U		2.4 U		5.0 U		2.4 U		4.8 U		-
Aroclor-1221	11104-28-2	50	2.4 U		4.8 U		2.4 U		5.0 U		2.4 U		4.8 U		-
Aroclor-1232	11141-16-5	50	2.4 U		4.8 U		2.4 U		5.0 U		2.4 U		4.8 U		-
Aroclor-1242	53469-21-9	50	2.4 U		4.8 U		2.4 U		5.0 U		2.4 U		4.8 U		-
Aroclor-1248	12672-29-6	50	2.4 U		4.8 U		19		5.0 U		2.4 U		4.8 U		-
Aroclor-1254	11097-69-1	50	12		54		51		46		17		46		10%
Aroclor-1260	11096-82-5	50	6.5		23		88		64		6.9		26		32%
Aroclor-1262	37324-23-5	50	2.4 U		4.8 U		2.4 U		5.0 U		2.4 U		4.8 U		-
Aroclor-1268	11100-14-4	50	2.4 U		4.8 U		40 U		5.0 U		2.4 U		4.8 U		-
Total PCBs	1336-36-3	50	18.5		77		198		110		23.9		72		57%
Sample ID		TSCA: Bulk Product	100R-PT-06		100R-PT-07		100R-PT-08		100R-PT-09		100R-PT-10		100R-PT-11		
			White Epoxy and Beige Paint		White Paint		Dark Green Paint		Dark Green Paint		Dark Green Paint		Light Green Paint		
Sample Date	CAS#		6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	
		(mg/Kg)													
Aroclor-1016	12674-11-2	50	4.8 U		5.0 U		10 U		5.0 U		4.8 U		4.8 U		
Aroclor-1221	11104-28-2	50	4.8 U		5.0 U		10 U		5.0 U		4.8 U		4.8 U		
Aroclor-1232	11141-16-5	50	4.8 U		5.0 U		10 U		5.0 U		4.8 U		4.8 U		
Aroclor-1242	53469-21-9	50	4.8 U		5.0 U		10 U		5.0 U		4.8 U		4.8 U		
Aroclor-1248	12672-29-6	50	15		5.0 U		18		13		4.8 U		7.8		
Aroclor-1254	11097-69-1	50	45		36		71		26		37		31		
Aroclor-1260	11096-82-5	50	4.8 U		29		47		15		31		40		
Aroclor-1262	37324-23-5	50	4.8 U		5.0 U		10 U		5.0 U		4.8 U		4.8 U		
Aroclor-1268	11100-14-4	50	4.8 U		5.0 U		10 U		5.0 U		4.8 U		4.8 U		
Total PCBs	1336-36-3	50	60		65		136		54		68		79		
Sample ID		TSCA: Bulk Product	100R-PT-12												
			White Paint												
Sample Date	CAS#		6/23/2021	Q											
		(mg/Kg)													
Aroclor-1016	12674-11-2	50	4.8 U												
Aroclor-1221	11104-28-2	50	4.8 U												
Aroclor-1232	11141-16-5	50	4.8 U												
Aroclor-1242	53469-21-9	50	4.8 U												
Aroclor-1248	12672-29-6	50	4.8 U												
Aroclor-1254	11097-69-1	50	47												
Aroclor-1260	11096-82-5	50	30												
Aroclor-1262	37324-23-5	50	4.8 U												
Aroclor-1268	11100-14-4	50	4.8 U												
Total PCBs	1336-36-3	50	77												

Key:

TSCA - Toxic Substance Control Act

mg/kg - milligrams per kilogram (parts per million)

Bold results indicate detections of the analyte

Shaded results indicate an exceedance of the enforcement standard

U - Analyte not detected; limit of quantitation listed

Table C-2
Concentrations of Polychlorinated Biphenyls in Solid (Non-Porous) Media

Sample ID		TSCA: Solid Non-Porous Media High Occupancy Walkaway	TSCA: Solid Non-Porous Media Low Occupancy Walkaway	100R-WP-01		100R-WP-02		100R-WP-03		100R-WP-03-FD		100R-WP-04		100R-WP-05		RPD
Sample Date				6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	6/24/2021	Q	6/23/2021	Q	
		(µg/Wipe)	(µg/Wipe)													
Aroclor-1016	12674-11-2	10	100	0.20	U	0.20	U	0.20	U	0.20	U	10	U	4.0	U	-
Aroclor-1221	11104-28-2	10	100	0.20	U	0.20	U	0.20	U	0.20	U	10	U	4.0	U	-
Aroclor-1232	11141-16-5	10	100	0.20	U	0.20	U	0.20	U	0.20	U	10	U	4.0	U	-
Aroclor-1242	53469-21-9	10	100	0.20	U	0.20	U	0.20	U	0.20	U	10	U	4.0	U	-
Aroclor-1248	12672-29-6	10	100	0.20	U	0.26		0.20	U	0.20	U	10	U	6.8		-
Aroclor-1254	11097-69-1	10	100	0.20	U	1.1		0.49		0.70		120		25		35%
Aroclor-1260	11096-82-5	10	100	0.20	U	0.46		1.2		1.8		45		4.0	U	40%
Aroclor-1262	37324-23-5	10	100	0.20	U	0.20	U	0.20	U	0.20	U	10	U	4.0	U	-
Aroclor-1268	11100-14-4	10	100	0.20	U	0.20	U	0.20	U	0.20	U	10	U	4.0	U	-
Total PCBs	1336-36-3	10	100	0.20	U	1.82		1.7		2.5		165		31.8		39%
Sample ID		TSCA: Solid Non-Porous Media High Occupancy Walkaway	TSCA: Solid Non-Porous Media Low Occupancy Walkaway	100R-WP-06		EB-062321		EBLK-062421								
Sample Date	CAS#			6/24/2021	Q	6/23/2021	Q	6/24/2021	Q							
		(µg/Wipe)	(µg/Wipe)													
Aroclor-1016	12674-11-2	10	100	8.0	U	0.20	U	0.20	U							
Aroclor-1221	11104-28-2	10	100	8.0	U	0.20	U	0.20	U							
Aroclor-1232	11141-16-5	10	100	8.0	U	0.20	U	0.20	U							
Aroclor-1242	53469-21-9	10	100	8.0	U	0.20	U	0.20	U							
Aroclor-1248	12672-29-6	10	100	8.0	U	0.20	U	0.20	U							
Aroclor-1254	11097-69-1	10	100	32		0.20	U	0.20	U							
Aroclor-1260	11096-82-5	10	100	37		0.20	U	0.20	U							
Aroclor-1262	37324-23-5	10	100	8.0	U	0.20	U	0.20	U							
Aroclor-1268	11100-14-4	10	100	8.0	U	0.20	U	0.20	U							
Total PCBs	1336-36-3	10	100	69		0.20	U	0.20	U							

Key:

TSCA - Toxic Substance Control Act

µg/cm² - micrograms per squared centimeters

Bold results indicate detections of the analyte

Shaded results indicate an exceedance of the high occupancy walkway criteria

Italicized results indicate an exceedance of the low occupancy walkway criteria

U - Analyte not detected; limit of quantitation listed

Table C-3
Concentrations of Polychlorinated Biphenyls in Solid (Porous) Media

Sample ID		TSCA: Solid Porous Media High Occupancy Walkaway	TSCA: Solid Porous Media High Occupancy Cap	TSCA: Solid Porous Media Low Occupancy No Cap	100R-MS-01		100R-MS-2		100R-MS-03		100R-MS-03-FD		RPD
Sample Date	CAS#				6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	6/23/2021	Q	
		(mg/Kg)	(mg/Kg)	(mg/Kg)									
Aroclor-1016	12674-11-2	1	10	25	0.097	U	0.096	U	0.097	U	0.097	U	-
Aroclor-1221	11104-28-2	1	10	25	0.097	U	0.096	U	0.097	U	0.097	U	-
Aroclor-1232	11141-16-5	1	10	25	0.097	U	0.096	U	0.097	U	0.097	U	-
Aroclor-1242	53469-21-9	1	10	25	0.097	U	0.096	U	0.097	U	0.097	U	-
Aroclor-1248	12672-29-6	1	10	25	0.097	U	0.11		0.097	U	0.097	U	-
Aroclor-1254	11097-69-1	1	10	25	0.13		0.39		0.93		0.85		9%
Aroclor-1260	11096-82-5	1	10	25	0.097	U	0.25		1.3		1.2		8%
Aroclor-1262	37324-23-5	1	10	25	0.097	U	0.096	U	0.097	U	0.097	U	-
Aroclor-1268	11100-14-4	1	10	25	0.097	U	0.096	U	0.097	U	0.097	U	-
Total PCBs	1336-36-3	1	10	25	0.13		0.75		2.2		2.1		8%

Key:

TSCA - Toxic Substance Control Act

mg/kg - milligrams per kilogram (parts per million)

Bold results indicate detections of the analyte

Shaded results indicate an exceedance of the high occupancy walkway criteria

U - Analyte not detected; limit of quantitation listed

Table C-4
Concentrations of Volatile Organic Compounds in Soil Gas

Sample ID		VIS- Sub-Slab Soil Gas - Resident	VIS- Sub-Slab Soil Gas - Non-Resident	100R-SG-01		100R-SG-02		100R-SG-03		100R-SG-04		100R-SG-05		100R-SG-06	
Sample Date	CAS#	(µg/m³)	(µg/m³)	6/29/2021	Q	6/29/2021	Q	6/30/2021	Q	6/30/2021	Q	7/9/2021	Q	7/9/2021	Q
1,1,1-Trichloroethane	71-55-6	NE	NE	2.3		0.56		3.6		13		2.3		680	
1,1,2,2-Tetrachloroethane	79-34-5	NE	NE	0.69 U		0.69 U		0.69 U		0.69 U		0.69 U		0.69 U	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	NE	NE	3.1 U		3.1 U		3.1 U		3.1 U		3.1 U		3.1 U	
1,1,2-Trichloroethane	79-00-5	NE	NE	0.55 U		0.55 U		0.55 U		0.55 U		0.55 U		1.5	
1,1-Dichloroethane	75-34-3	21	170	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		1900	
1,1-Dichloroethylene	75-35-4	6700	23000	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		8.0	
1,2,4-Trichlorobenzene	120-82-1	NE	NE	0.74 U		0.74 U		0.74 U		0.74 U		0.74 U		0.74 U	
1,2,4-Trimethylbenzene	95-63-6	2000	7000	55		2600		0.49 U		8.0		4.6		0.49 U	
1,2-Dibromoethane (EDB)	106-93-4	NE	NE	0.77 U		0.77 U		0.77 U		0.77 U		0.77 U		0.77 U	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	76-14-2	NE	NE	0.70 U		0.70 U		0.70 U		0.70 U		0.70 U		0.70 U	
1,2-Dichlorobenzene	95-50-1	NE	NE	0.60 U		0.60 U		0.60 U		0.60 U		0.60 U		0.60 U	
1,2-Dichloroethane	107-06-2	NE	NE	0.40 U		0.40 U		0.40 U		0.40 U		0.40 U		3.6	
1,2-Dichloropropane	78-87-5	NE	NE	0.46 U		0.46 U		0.46 U		0.46 U		0.46 U		0.46 U	
1,3,5-Trimethylbenzene	108-67-8	2000	7000	29		340		3.0		0.49 U		1.3		0.87	
1,3-Butadiene	106-99-0	NE	NE	5.2		4.7		35		0.22 U		0.22 U		19	
1,3-Dichlorobenzene	541-73-1	NE	NE	0.60 U		0.60 U		0.60 U		0.60 U		0.60 U		0.60 U	
1,4-Dichlorobenzene	106-46-7	NE	NE	0.60 U		0.60 U		0.60 U		0.60 U		0.60 U		0.60 U	
1,4-Dioxane	123-91-1	NE	NE	3.6 U		3.6 U		3.6 U		3.6 U		3.6 U		450	
2-Butanone (MEK)	78-93-3	NE	NE	12 U		180		170		26		50		27	
2-Hexanone (MBK)	591-78-6	NE	NE	0.41 U		0.41 U		0.41 U		0.82 U		0.82 U		0.82 U	
4-Ethyltoluene	622-96-8	NE	NE	5.7		0.49 U		1.8		0.49 U		0.49 U		0.49 U	
4-Methyl-2-pentanone (MIBK)	108-10-1	NE	NE	0.41 U		26		13		0.41 U		27		0.41 U	
Acetone	67-64-1	NE	NE	40		3600		1700		850		2000		270	
Benzene	71-43-2	4.3	35	9.3		12		24		0.32 U		3.6		9.0	
Benzyl chloride	100-44-7	NE	NE	0.52 U		0.52 U		0.52 U		0.52 U		0.52 U		0.52 U	
Bromodichloromethane	75-27-4	NE	NE	3.2		0.67 U		0.67 U		0.67 U		0.67 U		0.67 U	
Bromoform	75-25-2	NE	NE	1.0 U		1.0 U		1.0 U		1.0 U		1.0 U		1.0 U	
Bromomethane	74-83-9	NE	NE	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		0.39 U	
Carbon Disulfide	75-15-0	NE	NE	3.1 U		9.7		55		3.1 U		3.1 U		58	
Carbon Tetrachloride	56-23-5	5.7	45	0.96		0.63 U		0.63 U		0.63 U		0.63 U		0.63 U	
Chlorobenzene	108-90-7	NE	NE	0.46 U		0.46 U		0.46 U		0.46 U		0.46 U		0.46 U	
Chloroethane	75-00-3	330000	1200000	0.26 U		0.26 U		0.26 U		0.26 U		0.26 U		24	
Chloroform	67-66-3	NE	NE	27		4.2		5.1		3.6		15		50	
Chloromethane	74-87-3	NE	NE	0.41 U		0.41 U		0.41 U		0.41 U		0.41 U		0.41 U	
cis-1,2-Dichloroethylene	156-59-2	NE	NE	0.40 U		0.40 U		0.40 U		0.40 U		8.5		310	
cis-1,3-Dichloropropene	10061-01-5	NE	NE	0.45 U		0.45 U		0.45 U		0.45 U		0.45 U		0.45 U	
Cyclohexane	110-82-7	NE	NE	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		0.34 U	
Dibromochloromethane	124-48-1	NE	NE	0.85 U		0.85 U		0.85 U		0.85 U		0.85 U		0.85 U	
Dichlorodifluoromethane (Freon 12)	75-71-8	NE	NE	2.3		2.0		4.8		0.49 U		2.0		0.49 U	
Ethanol	64-17-5	NE	NE	87		23000		1200		160		26		480	
Ethyl Acetate	141-78-6	NE	NE	3.6 U		3.6 U		3.6 U		3.6 U		3.6 U		3.6 U	
Ethylbenzene	100-41-4	13	110	7.3		24		5.4		1.0		1.0		1.9	
Heptane	142-82-5	NE	NE	0.41 U		4.2		15		0.41 U		0.41 U		3.7	
Hexachlorobutadiene	87-68-3	NE	NE	1.1 U		1.1 U		1.1 U		1.1 U		1.1 U		1.1 U	
Hexane	110-54-3	NE	NE	14 U		14 U		23		14 U		14 U		14 U	
Isopropanol	67-63-0	NE	NE	12		240		230		17		9.9		21	
m&p-Xylene	1330-20-7P/M	NE	NE	47		80		16		3.7		3.6		6.1	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	NE	NE	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		0.36 U	
Methylene Chloride	75-09-2	2000	27000	3.5 U		3.5 U		3.5 U		3.5 U		3.5 U		14	
Naphthalene	91-20-3	1	8	13		0.52 U		8.6		20		0.52 U		2.9	
o-Xylene	95-47-6	NE	NE	62		81		5.8		1.6		1.5		2.7	
Propene	115-07-1	NE	NE	33		14		160		22		39		160	
Styrene	100-42-5	NE	NE	2.2		0.43 U		3.2		0.43 U		0.59		0.98	

Table C-4
Concentrations of Volatile Organic Compounds in Soil Gas

Sample ID		VIS- Sub-slab Soil Gas - Resident	VIS- Sub-slab Soil Gas - Non-resident	100R-SG-01		100R-SG-02		100R-SG-03		100R-SG-04		100R-SG-05		100R-SG-06	
Sample Date	CAS#	(µg/m³)	(µg/m³)	6/29/2021	Q	6/29/2021	Q	6/30/2021	Q	6/30/2021	Q	7/9/2021	Q	7/9/2021	Q
Tetrachloroethylene	127-18-4	21	170	9.1		40		55		33		4.6		200	
Tetrahydrofuran	109-99-9	NE	NE	2.9 U		2.9 U		2.9 U		2.9 U		2.9 U		2.9 U	
Toluene	108-88-3	NE	NE	21		22		42		4.9		7.8		14	
Total Trimethylbenzene	25551-13-7	NE	NE	84		2940		3.0		8.0		5.9		0.87	
Total Xylene	1330-20-7	NE	NE	109		161		21.8		5.3		1.5		2.7	
trans-1,2-Dichloroethylene	156-60-5	NE	NE	0.40 U		0.40 U		0.40 U		0.40 U		1.5		0.40 U	
trans-1,3-Dichloropropene	10061-02-6	NE	NE	0.45 U		0.45 U		0.45 U		0.45 U		0.45 U		0.45 U	
Trichloroethylene	79-01-6	6.7	23	5.0		9.9		90		150		410		2800	
Trichlorofluoromethane (Freon 11)	75-69-4	NE	NE	62		2.2 U		2.2 U		2.2 U		2.2 U		2.2 U	
Vinyl Acetate	108-05-4	NE	NE	7.0 U		7.0 U		7.0 U		7.0 U		7.0 U		7.0 U	
Vinyl Chloride	75-01-4	3.7	62	0.26 U		0.26 U		0.26 U		0.26 U		0.26 U		0.26 U	

Table C-4
Concentrations of Volatile Organic Compounds in Soil Gas

Sample ID		VIS- Sub-slab Soil Gas - Resident	VIS- Sub-slab Soil Gas - Non-resident	100R-SG-07		100R-SG-08		100R-SG-09	
Sample Date		(µg/m³)	(µg/m³)	7/9/2021	Q	7/9/2021	Q	6/30/2021	Q
1,1,1-Trichloroethane	71-55-6	NE	NE	60		8.9		0.95	
1,1,2,2-Tetrachloroethane	79-34-5	NE	NE	0.69 U		0.69 U		0.69 U	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	NE	NE	3.1 U		3.1 U		3.1 U	
1,1,2-Trichloroethane	79-00-5	NE	NE	0.55 U		0.55 U		0.55 U	
1,1-Dichloroethane	75-34-3	21	170	0.4 U		0.4 U		0.40 U	
1,1-Dichloroethylene	75-35-4	6700	23000	0.4 U		0.4 U		0.40 U	
1,2,4-Trichlorobenzene	120-82-1	NE	NE	0.74 U		0.74 U		0.74 U	
1,2,4-Trimethylbenzene	95-63-6	2000	7000	1.6		4.3		0.49 U	
1,2-Dibromoethane (EDB)	106-93-4	NE	NE	0.77 U		0.77 U		0.77 U	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	76-14-2	NE	NE	0.70 U		0.70 U		0.70 U	
1,2-Dichlorobenzene	95-50-1	NE	NE	0.60 U		0.60 U		0.60 U	
1,2-Dichloroethane	107-06-2	NE	NE	0.40 U		0.40 U		0.40 U	
1,2-Dichloropropane	78-87-5	NE	NE	0.46 U		0.46 U		0.46 U	
1,3,5-Trimethylbenzene	108-67-8	2000	7000	0.51		1.3		0.49 U	
1,3-Butadiene	106-99-0	NE	NE	0.22 U		0.22 U		0.22 U	
1,3-Dichlorobenzene	541-73-1	NE	NE	0.60 U		0.60 U		0.60 U	
1,4-Dichlorobenzene	106-46-7	NE	NE	0.60 U		0.60 U		0.60 U	
1,4-Dioxane	123-91-1	NE	NE	3.6 U		3.6 U		3.6 U	
2-Butanone (MEK)	78-93-3	NE	NE	12 U		12 U		15	
2-Hexanone (MBK)	591-78-6	NE	NE	0.82 U		0.82 U		0.82 U	
4-Ethyltoluene	622-96-8	NE	NE	0.49 U		0.49 U		0.49 U	
4-Methyl-2-pentanone (MIBK)	108-10-1	NE	NE	0.41 U		0.41 U		0.41 U	
Acetone	67-64-1	NE	NE	110		43		58	
Benzene	71-43-2	4.3	35	3.1		0.64		1.5	
Benzyl chloride	100-44-7	NE	NE	0.52 U		0.52 U		0.52 U	
Bromodichloromethane	75-27-4	NE	NE	0.67 U		0.67 U		0.67 U	
Bromoform	75-25-2	NE	NE	1.0 U		1.0 U		1.0 U	
Bromomethane	74-83-9	NE	NE	0.39 U		0.39 U		0.39 U	
Carbon Disulfide	75-15-0	NE	NE	3.1 U		3.1 U		3.1 U	
Carbon Tetrachloride	56-23-5	5.7	45	8.0		3.3		1.3	
Chlorobenzene	108-90-7	NE	NE	0.46 U		0.46 U		0.46 U	
Chloroethane	75-00-3	330000	1200000	0.26 U		0.26 U		0.26 U	
Chloroform	67-66-3	NE	NE	22		3.3		5.5	
Chloromethane	74-87-3	NE	NE	0.41 U		0.41 U		0.41 U	
cis-1,2-Dichloroethylene	156-59-2	NE	NE	5.4		2.1		0.40 U	
cis-1,3-Dichloropropene	10061-01-5	NE	NE	0.45 U		0.45 U		0.45 U	
Cyclohexane	110-82-7	NE	NE	0.34 U		0.34 U		0.34 U	
Dibromochloromethane	124-48-1	NE	NE	0.85 U		0.85 U		0.85 U	
Dichlorodifluoromethane (Freon 12)	75-71-8	NE	NE	0.49 U		0.49 U		0.49 U	
Ethanol	64-17-5	NE	NE	22		40		89	
Ethyl Acetate	141-78-6	NE	NE	3.6 U		3.6 U		3.6 U	
Ethylbenzene	100-41-4	13	110	0.88		0.92		0.55	
Heptane	142-82-5	NE	NE	0.41 U		0.41 U		1.6	
Hexachlorobutadiene	87-68-3	NE	NE	1.1 U		1.1 U		1.1 U	
Hexane	110-54-3	NE	NE	14 U		14 U		14 U	
Isopropanol	67-63-0	NE	NE	9.8 U		9.8 U		14	
m&p-Xylene	1330-20-7P/M	NE	NE	2.8		3.7		1.4	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	NE	NE	0.36 U		0.36 U		0.36 U	
Methylene Chloride	75-09-2	2000	27000	3.5 U		3.5 U		3.5 U	
Naphthalene	91-20-3	1	8	0.52 U		1.9		0.52 U	
o-Xylene	95-47-6	NE	NE	1.2		2.0		0.59	
Propene	115-07-1	NE	NE	6.9 U		6.9 U		6.9 U	
Styrene	100-42-5	NE	NE	0.51		0.43 U		0.43 U	

Table C-4
Concentrations of Volatile Organic Compounds in Soil Gas

Sample ID		VIS- Sub-slab Soil Gas - Resident	VIS- Sub-slab Soil Gas - Non-resident	100R-SG-07		100R-SG-08		100R-SG-09	
Sample Date		(µg/m³)	(µg/m³)	7/9/2021	Q	7/9/2021	Q	6/30/2021	Q
Tetrachloroethylene	127-18-4	21	170	720		440		22	
Tetrahydrofuran	109-99-9	NE	NE	2.9	U	2.9	U	2.9	U
Toluene	108-88-3	NE	NE	4.9		4.0		3.0	
Total Trimethylbenzene	25551-13-7	NE	NE	2.11		5.6		0.49	U
Total Xylene	1330-20-7	NE	NE	1.2		2.0		2.0	
trans-1,2-Dichloroethylene	156-60-5	NE	NE	0.40	U	0.40	U	0.40	U
trans-1,3-Dichloropropene	10061-02-6	NE	NE	0.45	U	0.45	U	0.45	U
Trichloroethylene	79-01-6	6.7	23	2100		660		120	
Trichlorofluoromethane (Freon 11)	75-69-4	NE	NE	2.2	U	2.2	U	2.2	U
Vinyl Acetate	108-05-4	NE	NE	7.0	U	7.0	U	7.0	U
Vinyl Chloride	75-01-4	3.7	62	0.26	U	0.26	U	0.26	U

Key:

Vapor Intrusion Standards - Sub-slab Soil Gas from Investigation and Remediation of Contaminated Properties Rule, February 2024

µg/m³ - micrograms per cubic meter

Bold results indicate detections of the analyte

Shaded results indicate an exceedance of the residential enforcement standard

Italicized results indicate an exceedance of the non-residential enforcement standard

NE - screening level not established

U - Analyte not detected; limit of quantitation listed

Table C-5
Concentrations of Semi-Volatile Organic Compounds in Soil

Sample ID		VSS - Resident Soil	VSS - Non-resident Soil	VSS - Urban Background	EPA Residential RSL	EPA Industrial RSL	100R-SB-101-2.0		100R-SB-102-2.0	
Sample Date	CAS#	(mg/Kg)	(mg/Kg)		(mg/Kg)	(mg/Kg)	6/29/2021	Q	6/29/2021	Q
1,2,4,5-Tetrachlorobenzene	95-94-3	NE	NE	NE	23	350	0.19 U		0.20 U	
1,2,4-Trichlorobenzene	120-82-1	NE	NE	NE	24	110	0.19 U		0.20 U	
1,2-Dichlorobenzene	95-50-1	NE	NE	NE	1800	9300	0.19 U		0.20 U	
1,2-Diphenylhydrazine/Azobenzene	122-66-7	NE	NE	NE	0.68	2.9	0.19 U		0.20 U	
1,3-Dichlorobenzene	541-73-1	NE	NE	NE	NE	NE	0.19 U		0.20 U	
1,4-Dichlorobenzene	106-46-7	NE	NE	NE	2.6	11	0.19 U		0.20 U	
1-Methylnaphthalene	90-12-0	NE	NE	NE	18	73	0.096 U		0.10 U	
2,4,5-Trichlorophenol	95-95-4	NE	NE	NE	6300	82000	0.19 U		0.20 U	
2,4,6-Trichlorophenol	88-06-2	NE	NE	NE	49	210	0.19 U		0.20 U	
2,4-Dichlorophenol	120-83-2	NE	NE	NE	190	2500	0.19 U		0.20 U	
2,4-Dimethylphenol	105-67-9	NE	NE	NE	1300	16000	0.19 U		0.20 U	
2,4-Dinitrophenol	51-28-5	NE	NE	NE	130	1600	0.37 U		0.39 U	
2,4-Dinitrotoluene	121-14-2	NE	NE	NE	1.7	7.4	0.19 U		0.20 U	
2,6-Dinitrotoluene	606-20-2	NE	NE	NE	0.36	1.5	0.19 U		0.20 U	
2-Chloronaphthalene	91-58-7	NE	NE	NE	4800	60000	0.19 U		0.20 U	
2-Chlorophenol	95-57-8	NE	NE	NE	390	5800	0.19 U		0.20 U	
2-Methylnaphthalene	91-57-6	NE	NE	NE	240	3000	0.096 U		0.10 U	
2-Methylphenol	95-48-7	NE	NE	NE	3200	41000	0.19 U		0.20 U	
2-Nitroaniline	88-74-4	NE	NE	NE	630	8000	0.19 U		0.20 U	
2-Nitrophenol	88-75-5	NE	NE	NE	NE	NE	0.19 U		0.20 U	
3,3-Dichlorobenzidine	91-94-1	NE	NE	NE	1.2	5.1	0.096 U		0.10 U	
3/4-Methylphenol	108-39-4/106-4	NE	NE	NE	NE	NE	0.19 U		0.20 U	
3-Nitroaniline	99-09-2	NE	NE	NE	NE	NE	0.19 U		0.20 U	
4,6-Dinitro-2-methylphenol	534-52-1	NE	NE	NE	5.1	66	0.19 U		0.20 U	
4-Bromophenylphenylether	101-55-3	NE	NE	NE	NE	NE	0.19 U		0.20 U	
4-Chloro-3-methylphenol	59-50-7	NE	NE	NE	6300	82000	0.37 U		0.39 U	
4-Chloroaniline	106-47-8	NE	NE	NE	2.7	11	0.37 U		0.39 U	
4-Chlorophenylphenylether	7005-72-3	NE	NE	NE	NE	NE	0.19 U		0.20 U	
4-Nitroaniline	100-01-6	NE	NE	NE	27	110	0.19 U		0.20 U	
4-Nitrophenol	100-02-7	NE	NE	NE	NE	NE	0.37 U		0.39 U	
Acenaphthene	83-32-9	NE	NE	NE	3600	45000	0.096 U		0.10 U	
Acenaphthylene	208-96-8	NE	NE	NE	NE	NE	0.096 U		0.10 U	
Acetophenone	98-86-2	NE	NE	NE	7800	120000	0.19 U		0.20 U	
Aniline	62-53-3	NE	NE	NE	95	400	0.19 U		0.20 U	
Anthracene	120-12-7	NE	NE	NE	18000	230000	0.096 U		0.10 U	
B(a)P-TEQ	50-32-8	0.07	1.54	0.58	0.11	2.1	0.111 U		0.116 U	
Benzidine	92-87-5	NE	NE	NE	0.00053	0.01	0.37 U		0.39 U	
Benzo(a)anthracene	56-55-3	NE	NE	NE	1.1	21	0.096 U		0.10 U	
Benzo(a)pyrene	50-32-8	0.07	1.54	0.58	0.11	2.1	0.096 U		0.10 U	
Benzo(b)fluoranthene	205-99-2	NE	NE	NE	1.1	21	0.096 U		0.10 U	
Benzo(g,h,i)perylene	191-24-2	NE	NE	NE	NE	NE	0.096 U		0.10 U	

Table C-5
Concentrations of Semi-Volatile Organic Compounds in Soil

Sample ID		VSS - Resident Soil	VSS - Non-resident Soil	VSS - Urban Background	EPA Residential RSL	EPA Industrial RSL	100R-SB-101-2.0		100R-SB-102-2.0	
Sample Date	CAS#	(mg/Kg)	(mg/Kg)		(mg/Kg)	(mg/Kg)	6/29/2021	Q	6/29/2021	Q
Benzo(k)fluoranthene	207-08-9	NE	NE	NE	11	210	0.096	U	0.10	U
Benzoic Acid	65-85-0	NE	NE	NE	250000	3300000	0.56	U	0.59	U
Bis(2-chloroethoxy)methane	111-91-1	NE	NE	NE	190	2500	0.19	U	0.20	U
Bis(2-chloroethyl)ether	111-44-4	NE	NE	NE	0.23	1	0.19	U	0.20	U
Bis(2-chloroisopropyl)ether	108-60-1	2804	36274	NE	3100	47000	0.19	U	0.20	U
Bis(2-Ethylhexyl)phthalate	117-81-7	20	120	NE	39	160	0.19	U	0.20	U
Butylbenzylphthalate	85-68-7	NE	NE	NE	290	1200	0.19	U	0.20	U
Carbazole	86-74-8	NE	NE	NE	NE	NE	0.096	U	0.10	U
Chrysene	218-01-9	NE	NE	NE	110	2100	0.096	U	0.10	U
Dibenz(a,h)anthracene	53-70-3	NE	NE	NE	0.11	2.1	0.096	U	0.10	U
Dibenzofuran	132-64-9	NE	NE	NE	73	1000	0.19	U	0.20	U
Diethylphthalate	84-66-2	NE	NE	NE	51000	660000	0.19	U	0.20	U
Dimethylphthalate	131-11-3	NE	NE	NE	NE	NE	0.19	U	0.20	U
Di-n-butylphthalate	84-74-2	NE	NE	NE	6300	82000	0.19	U	0.20	U
Di-n-octylphthalate	117-84-0	NE	NE	NE	630	8200	0.19	U	0.20	U
Fluoranthene	206-44-0	2301	26371	NE	2400	30000	0.096	U	0.10	U
Fluorene	86-73-7	2301	26371	NE	2400	30000	0.096	U	0.10	U
Hexachlorobenzene	118-74-1	0.13	0.69	NE	0.21	0.96	0.19	U	0.20	U
Hexachlorobutadiene	87-68-3	NE	NE	NE	1.2	5.3	0.19	U	0.20	U
Hexachlorocyclopentadiene	77-47-4	NE	NE	NE	1.8	7.5	0.19	U	0.20	U
Hexachloroethane	67-72-1	NE	NE	NE	1.8	8	0.19	U	0.20	U
Indeno(1,2,3-cd)pyrene	193-39-5	NE	NE	NE	1.1	21	0.096	U	0.10	U
Isophorone	78-59-1	NE	NE	NE	570	2400	0.19	U	0.20	U
Naphthalene	91-20-3	1.2	7.2	NE	2	8.6	0.096	U	0.10	U
Nitrobenzene	98-95-3	NE	NE	NE	5.1	22	0.19	U	0.20	U
N-Nitrosodimethylamine	62-75-9	NE	NE	NE	0.002	0.034	0.19	U	0.20	U
N-Nitrosodi-n-propylamine	621-64-7	NE	NE	NE	0.078	0.33	0.19	U	0.20	U
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	NE	NE	NE	110	470	0.19	U	0.20	U
Pentachloronitrobenzene	82-68-8	NE	NE	NE	2.7	13	0.19	U	0.20	U
Pentachlorophenol	87-86-5	0.48	2.9	NE	1	4	0.19	U	0.20	U
Phenanthrene	85-01-8	NE	NE	NE	NE	NE	0.096	U	0.10	U
Phenol	108-95-2	NE	NE	NE	19000	250000	0.19	U	0.20	U
Pyrene	129-00-0	NE	NE	NE	1800	23000	0.096	U	0.10	U
Pyridine	110-86-1	NE	NE	NE	78	1200	0.19	U	0.20	U

Key:

Vermont Soil Standards from Investigation and Remediation of Contaminated Properties Rule, February 2024

RSL - US Environmental Protection Agency, Regional Screening Levels for Residential (Res) and Industrial (Ind) settings, November 2024

B(a)P-TEQ - Total carcinogenic PAH calculated as benzo(a)pyrene Toxicity Equivalency Quotient, using Toxicity Equivalency Factors (source: EPA RSL User Guide)□

mg/kg - milligrams per kilogram (parts per million)

Bold results indicate detections of the analyte

Shaded results indicate an exceedance of the residential enforcement standard

Italicized results indicate and exceedance of the non-residential enforcement standard

NE - screening level not established

U - Analyte not detected; limit of quantitation listed

Table C-6
Concentrations of Polychlorinated Biphenyls in Soil

Sample ID		VSS - Resident Soil	VSS - Non-resident Soil	TSCA: Solid Porous Media High Occupancy Walkaway	100R-SB-101-2.0		100R-SB-102-2.0	
Sample Date	CAS#				6/29/2021	Q	6/29/2021	Q
		(mg/Kg)	(mg/Kg)	(mg/Kg)				
Aroclor-1016	12674-11-2	NE	NE	1	0.089	U	0.094	U
Aroclor-1221	11104-28-2	NE	NE	1	0.089	U	0.094	U
Aroclor-1232	11141-16-5	NE	NE	1	0.089	U	0.094	U
Aroclor-1242	53469-21-9	NE	NE	1	0.089	U	0.094	U
Aroclor-1248	12672-29-6	NE	NE	1	0.089	U	0.094	U
Aroclor-1254	11097-69-1	NE	NE	1	0.089	U	0.094	U
Aroclor-1260	11096-82-5	NE	NE	1	0.089	U	0.094	U
Aroclor-1262	37324-23-5	NE	NE	1	0.089	U	0.094	U
Aroclor-1268	11100-14-4	NE	NE	1	0.089	U	0.094	U
Total PCBs	1336-36-3	0.11	0.68	1	0.089	U	0.094	U

Key:

Vermont Soil Standards from Investigation and Remediation of Contaminated Properties Rule, February 2024

TSCA - Toxic Substance Control Act

mg/kg - milligrams per kilogram (parts per million)

Bold results indicate detections of the analyte

NE - screening level not established

U - Analyte not detected; limit of quantitation listed

Table C-7
Concentrations of Metals in Soil

Sample ID		VSS - Resident Soil	VSS - Non-resident Soil	VSS - Urban Background	EPA Residential RSL	EPA Industrial RSL	100R-SB-101-2.0		100R-SB-102-2.0	
Sample Date	CAS#						6/29/2021	Q	6/29/2021	Q
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)				
Antimony	7440-36-0	29	319	NE	31	470	1.8 U		1.9 U	
Arsenic	7440-38-2	NE	NE	16	0.68	3	3.6 U		3.9 U	
Barium	7440-39-3	11247	127382	NE	15000	220000	100		37	
Beryllium	7440-41-7	35	289	NE	160	2300	0.44		0.65	
Cadmium	7440-43-9	6.9	87	NE	NE	980	0.36 U		0.39 U	
Chromium	7440-47-3	NE	NE	NE	NE	NE	16		12	
Copper	7440-50-8	10407	139231	NE	3100	47000	27		21	
Lead	7439-92-1	NE	NE	111	400	800	4.5		20	
Nickel	7440-02-0	940	9707	NE	1500	22000	15		19	
Selenium	7782-49-2	366	4900	NE	390	5800	3.6 U		3.9 U	
Silver	7440-22-4	237	2483	NE	390	5800	0.36 U		0.39 U	
Thallium	7440-28-0	0.73	9.8	NE	0.78	12	1.8 U		1.9 U	
Zinc	7440-66-6	21986	294150	NE	23000	350000	43		61	
Mercury	7439-97-6	3.1	3.1	NE	11	46	0.032 U		0.04	

Key:

Vermont Soil Standards from Investigation and Remediation of Contaminated Properties Rule, February 2024

RSL - US Environmental Protection Agency, Regional Screening Levels for Residential (Res) and Industrial (Ind) settings, November 2024

mg/kg - milligrams per kilogram (parts per million)

Bold results indicate detections of the analyte

Shaded results indicate an exceedance of the residential enforcement standard

NE - screening level not established

U - Analyte not detected; limit of quantitation listed

Table C-8
Concentrations of Total Petroleum Hydrocarbons in Soil

Sample ID		VSS - Resident Soil	VSS - Non-resident Soil	EPA Residential RSL	EPA Industrial RSL	100R-SB-101-2.0		100R-SB-102-2.0	
Sample Date						6/29/2021	Q	6/29/2021	Q
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)				
Diesel Range Organics	C-999	NE	NE	96	440	9.4 U		2600	

Key:

Vermont Soil Standards from Investigation and Remediation of Contaminated Properties Rule, February 2024

RSL - US Environmental Protection Agency, Regional Screening Levels for Residential (Res) and Industrial (Ind) settings, November 2024

mg/kg - milligrams per kilogram (parts per million)

Bold results indicate detections of the analyte

Shaded results indicate an exceedance of the residential enforcement standard

Italicized results indicate an exceedance of the non-residential/industrial enforcement standard

NE - screening level not established

U - Analyte not detected; limit of quantitation listed

Appendix D: Laboratory Reports

July 22, 2021

Dan Voisin
Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602

Project Location: 100 River St, Springfield, VT
Client Job Number:
Project Number: 19-124
Laboratory Work Order Number: 21F1656

Enclosed are results of analyses for samples received by the laboratory on June 25, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602
ATTN: Dan Voisin

REPORT DATE: 7/22/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 19-124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21F1656

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 100 River St, Springfield, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
05P-CN-09	21F1656-01	Concrete		SW-846 8082A	
05P-CN-12	21F1656-02	Concrete		SW-846 8082A	
05P-CN-14	21F1656-03	Concrete		SW-846 8082A	
05P-CN-08	21F1656-04	Concrete		SW-846 8082A	
05P-CN-11	21F1656-05	Concrete		SW-846 8082A	
05P-CN-02	21F1656-06	Concrete		SW-846 8082A	
100R-WP-03	21F1656-07	Wipe		SW-846 8082A	
100R-MS-03-FD	21F1656-08	Product/Solid		SW-846 8082A	
100R-MS-03	21F1656-09	Product/Solid		SW-846 8082A	
100R-PT-04	21F1656-10	Paint		SW-846 8082A	
100R-MS-01	21F1656-11	Product/Solid		SW-846 8082A	
100R-PT-06	21F1656-12	Paint		SW-846 8082A	
100R-PT-01	21F1656-13	Paint		SW-846 8082A	
100R-PT-11	21F1656-14	Paint		SW-846 8082A	
100R-PT-03	21F1656-15	Paint		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 7/22/21- Samples -04 and -10 IDs revised

SW-846 8082A

Qualifications:**P-02**

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:

Aroclor-1254 [2C]

21F1656-07[100R-WP-03]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Kaitlyn A. Feliciano
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 05P-CN-09

Sampled: 6/23/2021 10:52

Sample ID: 21F1656-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:02	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:02	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:02	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:02	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:02	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:02	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:02	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:02	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:02	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.6	30-150						7/6/21 20:02	
Decachlorobiphenyl [2]	66.8	30-150						7/6/21 20:02	
Tetrachloro-m-xylene [1]	77.7	30-150						7/6/21 20:02	
Tetrachloro-m-xylene [2]	69.2	30-150						7/6/21 20:02	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 05P-CN-12

Sampled: 6/23/2021 11:20

Sample ID: 21F1656-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:19	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:19	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:19	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:19	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:19	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:19	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:19	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:19	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:19	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.7	30-150						7/6/21 20:19	
Decachlorobiphenyl [2]	78.6	30-150						7/6/21 20:19	
Tetrachloro-m-xylene [1]	76.5	30-150						7/6/21 20:19	
Tetrachloro-m-xylene [2]	68.4	30-150						7/6/21 20:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 05P-CN-14

Sampled: 6/23/2021 11:34

Sample ID: 21F1656-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:37	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:37	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:37	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:37	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:37	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:37	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:37	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:37	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:37	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.4	30-150						7/6/21 20:37	
Decachlorobiphenyl [2]	78.2	30-150						7/6/21 20:37	
Tetrachloro-m-xylene [1]	77.1	30-150						7/6/21 20:37	
Tetrachloro-m-xylene [2]	69.1	30-150						7/6/21 20:37	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 05P-CN-08

Sampled: 6/23/2021 10:38

Sample ID: 21F1656-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:54	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:54	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:54	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:54	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:54	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:54	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:54	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:54	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 20:54	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.2	30-150						7/6/21 20:54	
Decachlorobiphenyl [2]	81.4	30-150						7/6/21 20:54	
Tetrachloro-m-xylene [1]	80.4	30-150						7/6/21 20:54	
Tetrachloro-m-xylene [2]	71.4	30-150						7/6/21 20:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 05P-CN-11

Sampled: 6/23/2021 11:09

Sample ID: 21F1656-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:12	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:12	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:12	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:12	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:12	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:12	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:12	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:12	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:12	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.2	30-150						7/6/21 21:12	
Decachlorobiphenyl [2]	78.0	30-150						7/6/21 21:12	
Tetrachloro-m-xylene [1]	82.6	30-150						7/6/21 21:12	
Tetrachloro-m-xylene [2]	73.5	30-150						7/6/21 21:12	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 05P-CN-02

Sampled: 6/23/2021 09:42

Sample ID: 21F1656-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:29	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:29	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:29	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:29	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:29	TG
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:29	TG
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:29	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:29	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:29	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.3	30-150						7/6/21 21:29	
Decachlorobiphenyl [2]	74.7	30-150						7/6/21 21:29	
Tetrachloro-m-xylene [1]	61.9	30-150						7/6/21 21:29	
Tetrachloro-m-xylene [2]	55.6	30-150						7/6/21 21:29	

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Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 100R-WP-03

Sampled: 6/23/2021 10:10

Sample ID: 21F1656-07

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 21:13	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 21:13	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 21:13	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 21:13	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 21:13	JMB
Aroclor-1254 [2]	0.49	0.20	µg/Wipe	1	P-02	SW-846 8082A	7/2/21	7/7/21 21:13	JMB
Aroclor-1260 [1]	1.2	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 21:13	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 21:13	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 21:13	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	94.7	30-150						7/7/21 21:13	
Decachlorobiphenyl [2]	82.7	30-150						7/7/21 21:13	
Tetrachloro-m-xylene [1]	76.4	30-150						7/7/21 21:13	
Tetrachloro-m-xylene [2]	70.4	30-150						7/7/21 21:13	

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Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 100R-MS-03-FD

Sampled: 6/23/2021 11:01

Sample ID: 21F1656-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:47	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:47	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:47	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:47	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:47	TG
Aroclor-1254 [1]	0.85	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:47	TG
Aroclor-1260 [1]	1.2	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:47	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:47	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 21:47	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.1	30-150						7/6/21 21:47	
Decachlorobiphenyl [2]	81.3	30-150						7/6/21 21:47	
Tetrachloro-m-xylene [1]	81.9	30-150						7/6/21 21:47	
Tetrachloro-m-xylene [2]	73.5	30-150						7/6/21 21:47	

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Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 100R-MS-03

Sampled: 6/23/2021 11:01

Sample ID: 21F1656-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:04	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:04	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:04	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:04	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:04	TG
Aroclor-1254 [1]	0.93	0.096	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:04	TG
Aroclor-1260 [1]	1.3	0.096	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:04	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:04	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:04	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.5	30-150						7/6/21 22:04	
Decachlorobiphenyl [2]	77.5	30-150						7/6/21 22:04	
Tetrachloro-m-xylene [1]	77.5	30-150						7/6/21 22:04	
Tetrachloro-m-xylene [2]	69.2	30-150						7/6/21 22:04	

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Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 100R-PT-04

Sampled: 6/23/2021 09:28

Sample ID: 21F1656-10

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 18:25	JMB
Aroclor-1221 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 18:25	JMB
Aroclor-1232 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 18:25	JMB
Aroclor-1242 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 18:25	JMB
Aroclor-1248 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 18:25	JMB
Aroclor-1254 [2]	17	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 18:25	JMB
Aroclor-1260 [1]	6.9	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 18:25	JMB
Aroclor-1262 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 18:25	JMB
Aroclor-1268 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 18:25	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	65.9	30-150						7/3/21 18:25	
Decachlorobiphenyl [2]	70.6	30-150						7/3/21 18:25	
Tetrachloro-m-xylene [1]	62.5	30-150						7/3/21 18:25	
Tetrachloro-m-xylene [2]	66.7	30-150						7/3/21 18:25	

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Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 100R-MS-01

Sampled: 6/23/2021 10:20

Sample ID: 21F1656-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:22	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:22	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:22	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:22	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:22	TG
Aroclor-1254 [2]	0.13	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:22	TG
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:22	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:22	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	6/28/21	7/6/21 22:22	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.5	30-150						7/6/21 22:22	
Decachlorobiphenyl [2]	81.3	30-150						7/6/21 22:22	
Tetrachloro-m-xylene [1]	79.6	30-150						7/6/21 22:22	
Tetrachloro-m-xylene [2]	71.0	30-150						7/6/21 22:22	

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Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 100R-PT-06

Sampled: 6/23/2021 09:13

Sample ID: 21F1656-12

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 18:43	JMB
Aroclor-1221 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 18:43	JMB
Aroclor-1232 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 18:43	JMB
Aroclor-1242 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 18:43	JMB
Aroclor-1248 [1]	15	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 18:43	JMB
Aroclor-1254 [2]	45	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 18:43	JMB
Aroclor-1260 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 18:43	JMB
Aroclor-1262 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 18:43	JMB
Aroclor-1268 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 18:43	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.9	30-150						7/3/21 18:43	
Decachlorobiphenyl [2]	93.6	30-150						7/3/21 18:43	
Tetrachloro-m-xylene [1]	78.3	30-150						7/3/21 18:43	
Tetrachloro-m-xylene [2]	84.1	30-150						7/3/21 18:43	

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Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 100R-PT-01

Sampled: 6/23/2021 09:50

Sample ID: 21F1656-13

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 19:01	JMB
Aroclor-1221 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 19:01	JMB
Aroclor-1232 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 19:01	JMB
Aroclor-1242 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 19:01	JMB
Aroclor-1248 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 19:01	JMB
Aroclor-1254 [1]	12	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 19:01	JMB
Aroclor-1260 [1]	6.5	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 19:01	JMB
Aroclor-1262 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 19:01	JMB
Aroclor-1268 [1]	ND	2.4	mg/Kg	5		SW-846 8082A	6/28/21	7/3/21 19:01	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.8	30-150						7/3/21 19:01	
Decachlorobiphenyl [2]	86.2	30-150						7/3/21 19:01	
Tetrachloro-m-xylene [1]	64.9	30-150						7/3/21 19:01	
Tetrachloro-m-xylene [2]	69.2	30-150						7/3/21 19:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 100R-PT-11

Sampled: 6/23/2021 12:54

Sample ID: 21F1656-14

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:19	JMB
Aroclor-1221 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:19	JMB
Aroclor-1232 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:19	JMB
Aroclor-1242 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:19	JMB
Aroclor-1248 [1]	7.8	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:19	JMB
Aroclor-1254 [2]	31	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:19	JMB
Aroclor-1260 [2]	40	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:19	JMB
Aroclor-1262 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:19	JMB
Aroclor-1268 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:19	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	98.0	30-150						7/3/21 19:19	
Decachlorobiphenyl [2]	105	30-150						7/3/21 19:19	
Tetrachloro-m-xylene [1]	90.8	30-150						7/3/21 19:19	
Tetrachloro-m-xylene [2]	96.6	30-150						7/3/21 19:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St, Springfield, VT

Sample Description:

Work Order: 21F1656

Date Received: 6/25/2021

Field Sample #: 100R-PT-03

Sampled: 6/23/2021 10:40

Sample ID: 21F1656-15

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.8	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 19:37	JMB
Aroclor-1221 [1]	ND	9.8	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 19:37	JMB
Aroclor-1232 [1]	ND	9.8	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 19:37	JMB
Aroclor-1242 [1]	ND	9.8	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 19:37	JMB
Aroclor-1248 [1]	19	9.8	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 19:37	JMB
Aroclor-1254 [1]	51	9.8	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 19:37	JMB
Aroclor-1260 [2]	88	9.8	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 19:37	JMB
Aroclor-1262 [1]	ND	9.8	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 19:37	JMB
Aroclor-1268 [2]	40	9.8	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 19:37	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	111	30-150						7/3/21 19:37	
Decachlorobiphenyl [2]	117	30-150						7/3/21 19:37	
Tetrachloro-m-xylene [1]	94.1	30-150						7/3/21 19:37	
Tetrachloro-m-xylene [2]	100	30-150						7/3/21 19:37	

Sample Extraction Data

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21F1656-10 [100R-PT-04]	B284852	0.208	10.0	06/28/21
21F1656-12 [100R-PT-06]	B284852	0.210	10.0	06/28/21
21F1656-13 [100R-PT-01]	B284852	0.206	10.0	06/28/21
21F1656-14 [100R-PT-11]	B284852	0.209	10.0	06/28/21
21F1656-15 [100R-PT-03]	B284852	0.204	10.0	06/28/21

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21F1656-01 [05P-CN-09]	B284854	2.00	10.0	06/28/21
21F1656-02 [05P-CN-12]	B284854	2.05	10.0	06/28/21
21F1656-03 [05P-CN-14]	B284854	2.04	10.0	06/28/21
21F1656-04 [05P-CN-08]	B284854	2.00	10.0	06/28/21
21F1656-05 [05P-CN-11]	B284854	2.05	10.0	06/28/21
21F1656-06 [05P-CN-02]	B284854	2.07	10.0	06/28/21
21F1656-08 [100R-MS-03-FD]	B284854	2.06	10.0	06/28/21
21F1656-09 [100R-MS-03]	B284854	2.09	10.0	06/28/21
21F1656-11 [100R-MS-01]	B284854	2.07	10.0	06/28/21

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
21F1656-07 [100R-WP-03]	B285201	1.00	10.0	07/02/21

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B284852 - SW-846 3540C
Blank (B284852-BLK1)

Prepared: 06/28/21 Analyzed: 06/30/21

Aroclor-1016	ND	0.50	mg/Kg							
Aroclor-1016 [2C]	ND	0.50	mg/Kg							
Aroclor-1221	ND	0.50	mg/Kg							
Aroclor-1221 [2C]	ND	0.50	mg/Kg							
Aroclor-1232	ND	0.50	mg/Kg							
Aroclor-1232 [2C]	ND	0.50	mg/Kg							
Aroclor-1242	ND	0.50	mg/Kg							
Aroclor-1242 [2C]	ND	0.50	mg/Kg							
Aroclor-1248	ND	0.50	mg/Kg							
Aroclor-1248 [2C]	ND	0.50	mg/Kg							
Aroclor-1254	ND	0.50	mg/Kg							
Aroclor-1254 [2C]	ND	0.50	mg/Kg							
Aroclor-1260	ND	0.50	mg/Kg							
Aroclor-1260 [2C]	ND	0.50	mg/Kg							
Aroclor-1262	ND	0.50	mg/Kg							
Aroclor-1262 [2C]	ND	0.50	mg/Kg							
Aroclor-1268	ND	0.50	mg/Kg							
Aroclor-1268 [2C]	ND	0.50	mg/Kg							
Surrogate: Decachlorobiphenyl	8.97		mg/Kg	9.91		90.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	9.16		mg/Kg	9.91		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	7.59		mg/Kg	9.91		76.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.10		mg/Kg	9.91		81.7	30-150			

LCS (B284852-BS1)

Prepared: 06/28/21 Analyzed: 06/30/21

Aroclor-1016	2.2	0.48	mg/Kg	2.42		91.2	40-140			
Aroclor-1016 [2C]	2.4	0.48	mg/Kg	2.42		101	40-140			
Aroclor-1260	2.2	0.48	mg/Kg	2.42		92.1	40-140			
Aroclor-1260 [2C]	2.3	0.48	mg/Kg	2.42		96.3	40-140			
Surrogate: Decachlorobiphenyl	8.65		mg/Kg	9.67		89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.84		mg/Kg	9.67		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	7.24		mg/Kg	9.67		74.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	7.70		mg/Kg	9.67		79.7	30-150			

LCS Dup (B284852-BSD1)

Prepared: 06/28/21 Analyzed: 06/30/21

Aroclor-1016	2.4	0.50	mg/Kg	2.49		94.9	40-140	6.94	30	
Aroclor-1016 [2C]	2.6	0.50	mg/Kg	2.49		105	40-140	7.37	30	
Aroclor-1260	2.3	0.50	mg/Kg	2.49		92.9	40-140	3.77	30	
Aroclor-1260 [2C]	2.4	0.50	mg/Kg	2.49		97.6	40-140	4.28	30	
Surrogate: Decachlorobiphenyl	8.88		mg/Kg	9.96		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	9.06		mg/Kg	9.96		91.0	30-150			
Surrogate: Tetrachloro-m-xylene	8.33		mg/Kg	9.96		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.86		mg/Kg	9.96		89.0	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B284854 - SW-846 3540C
Blank (B284854-BLK1)

Prepared: 06/28/21 Analyzed: 07/02/21

Aroclor-1016	ND	0.097	mg/Kg							
Aroclor-1016 [2C]	ND	0.097	mg/Kg							
Aroclor-1221	ND	0.097	mg/Kg							
Aroclor-1221 [2C]	ND	0.097	mg/Kg							
Aroclor-1232	ND	0.097	mg/Kg							
Aroclor-1232 [2C]	ND	0.097	mg/Kg							
Aroclor-1242	ND	0.097	mg/Kg							
Aroclor-1242 [2C]	ND	0.097	mg/Kg							
Aroclor-1248	ND	0.097	mg/Kg							
Aroclor-1248 [2C]	ND	0.097	mg/Kg							
Aroclor-1254	ND	0.097	mg/Kg							
Aroclor-1254 [2C]	ND	0.097	mg/Kg							
Aroclor-1260	ND	0.097	mg/Kg							
Aroclor-1260 [2C]	ND	0.097	mg/Kg							
Aroclor-1262	ND	0.097	mg/Kg							
Aroclor-1262 [2C]	ND	0.097	mg/Kg							
Aroclor-1268	ND	0.097	mg/Kg							
Aroclor-1268 [2C]	ND	0.097	mg/Kg							
Surrogate: Decachlorobiphenyl	0.888		mg/Kg	0.966		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.902		mg/Kg	0.966		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.786		mg/Kg	0.966		81.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.844		mg/Kg	0.966		87.3	30-150			

LCS (B284854-BS1)

Prepared: 06/28/21 Analyzed: 07/02/21

Aroclor-1016	0.84	0.099	mg/Kg	0.985		84.9	40-140			
Aroclor-1016 [2C]	0.92	0.099	mg/Kg	0.985		93.7	40-140			
Aroclor-1260	0.82	0.099	mg/Kg	0.985		83.4	40-140			
Aroclor-1260 [2C]	0.82	0.099	mg/Kg	0.985		83.2	40-140			
Surrogate: Decachlorobiphenyl	0.920		mg/Kg	0.985		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.932		mg/Kg	0.985		94.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.846		mg/Kg	0.985		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.904		mg/Kg	0.985		91.7	30-150			

LCS Dup (B284854-BSD1)

Prepared: 06/28/21 Analyzed: 07/02/21

Aroclor-1016	0.80	0.099	mg/Kg	0.985		80.8	40-140	4.95	30	
Aroclor-1016 [2C]	0.86	0.099	mg/Kg	0.985		86.9	40-140	7.54	30	
Aroclor-1260	0.78	0.099	mg/Kg	0.985		78.9	40-140	5.47	30	
Aroclor-1260 [2C]	0.77	0.099	mg/Kg	0.985		77.9	40-140	6.64	30	
Surrogate: Decachlorobiphenyl	0.898		mg/Kg	0.985		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.916		mg/Kg	0.985		93.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.831		mg/Kg	0.985		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.892		mg/Kg	0.985		90.5	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285201 - SW-846 3540C
Blank (B285201-BLK1)

Prepared: 07/01/21 Analyzed: 07/07/21

Aroclor-1016	ND	0.20	µg/Wipe							
Aroclor-1016 [2C]	ND	0.20	µg/Wipe							
Aroclor-1221	ND	0.20	µg/Wipe							
Aroclor-1221 [2C]	ND	0.20	µg/Wipe							
Aroclor-1232	ND	0.20	µg/Wipe							
Aroclor-1232 [2C]	ND	0.20	µg/Wipe							
Aroclor-1242	ND	0.20	µg/Wipe							
Aroclor-1242 [2C]	ND	0.20	µg/Wipe							
Aroclor-1248	ND	0.20	µg/Wipe							
Aroclor-1248 [2C]	ND	0.20	µg/Wipe							
Aroclor-1254	ND	0.20	µg/Wipe							
Aroclor-1254 [2C]	ND	0.20	µg/Wipe							
Aroclor-1260	ND	0.20	µg/Wipe							
Aroclor-1260 [2C]	ND	0.20	µg/Wipe							
Aroclor-1262	ND	0.20	µg/Wipe							
Aroclor-1262 [2C]	ND	0.20	µg/Wipe							
Aroclor-1268	ND	0.20	µg/Wipe							
Aroclor-1268 [2C]	ND	0.20	µg/Wipe							
Surrogate: Decachlorobiphenyl	1.70		µg/Wipe	2.00		84.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.54		µg/Wipe	2.00		76.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.55		µg/Wipe	2.00		77.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.44		µg/Wipe	2.00		71.8	30-150			

LCS (B285201-BS1)

Prepared: 07/01/21 Analyzed: 07/07/21

Aroclor-1016	0.50	0.20	µg/Wipe	0.500		99.1	40-140			
Aroclor-1016 [2C]	0.43	0.20	µg/Wipe	0.500		86.3	40-140			
Aroclor-1260	0.43	0.20	µg/Wipe	0.500		86.6	40-140			
Aroclor-1260 [2C]	0.36	0.20	µg/Wipe	0.500		72.4	40-140			
Surrogate: Decachlorobiphenyl	1.78		µg/Wipe	2.00		89.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.62		µg/Wipe	2.00		81.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.56		µg/Wipe	2.00		78.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.46		µg/Wipe	2.00		73.1	30-150			

LCS Dup (B285201-BSD1)

Prepared: 07/01/21 Analyzed: 07/07/21

Aroclor-1016	0.48	0.20	µg/Wipe	0.500		95.5	40-140	3.70	30	
Aroclor-1016 [2C]	0.39	0.20	µg/Wipe	0.500		78.9	40-140	8.98	30	
Aroclor-1260	0.43	0.20	µg/Wipe	0.500		85.8	40-140	0.842	30	
Aroclor-1260 [2C]	0.36	0.20	µg/Wipe	0.500		72.0	40-140	0.527	30	
Surrogate: Decachlorobiphenyl	1.70		µg/Wipe	2.00		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.53		µg/Wipe	2.00		76.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.43		µg/Wipe	2.00		71.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.32		µg/Wipe	2.00		66.1	30-150			

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

100R-WP-03

Lab Sample ID: 21F1656-07 Date(s) Analyzed: 07/07/2021 07/07/2021

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.49	46.9
Aroclor-1260	1	0.000	0.000	0.000	1.2	
	2	0.000	0.000	0.000	0.87	31.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-MS-03-FD

Lab Sample ID: 21F1656-08 Date(s) Analyzed: 07/06/2021 07/06/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.75	12.5
Aroclor-1260	1	0.000	0.000	0.000	1.2	
	2	0.000	0.000	0.000	0.97	21.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

100R-MS-03

SW-846 8082A

Lab Sample ID: 21F1656-09 Date(s) Analyzed: 07/06/2021 07/06/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.93	
	2	0.000	0.000	0.000	0.77	18.8
Aroclor-1260	1	0.000	0.000	0.000	1.3	
	2	0.000	0.000	0.000	1.1	16.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-PT-03

Lab Sample ID: 21F1656-10 Date(s) Analyzed: 07/03/2021 07/03/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	16	
	2	0.000	0.000	0.000	17	6.1
Aroclor-1260	1	0.000	0.000	0.000	6.9	
	2	0.000	0.000	0.000	6.5	6.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

100R-MS-01

SW-846 8082A

Lab Sample ID: 21F1656-11 Date(s) Analyzed: 07/06/2021 07/06/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-PT-06

Lab Sample ID: 21F1656-12 Date(s) Analyzed: 07/03/2021 07/03/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	15	
	2	0.000	0.000	0.000	12	22.2
Aroclor-1254	1	0.000	0.000	0.000	42	
	2	0.000	0.000	0.000	45	6.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-PT-01

Lab Sample ID: 21F1656-13 Date(s) Analyzed: 07/03/2021 07/03/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	12	
	2	0.000	0.000	0.000	11	8.7
Aroclor-1260	1	0.000	0.000	0.000	6.5	
	2	0.000	0.000	0.000	6.2	6.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-PT-11

Lab Sample ID: 21F1656-14 Date(s) Analyzed: 07/03/2021 07/03/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	7.8	
	2	0.000	0.000	0.000	6.3	21.3
Aroclor-1254	1	0.000	0.000	0.000	29	
	2	0.000	0.000	0.000	31	3.3
Aroclor-1260	1	0.000	0.000	0.000	37	
	2	0.000	0.000	0.000	40	7.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

100R-PT-03

Lab Sample ID: 21F1656-15 Date(s) Analyzed: 07/03/2021 07/03/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	19	
	2	0.000	0.000	0.000	15	23.5
Aroclor-1254	1	0.000	0.000	0.000	51	
	2	0.000	0.000	0.000	51	1.9
Aroclor-1260	1	0.000	0.000	0.000	80	
	2	0.000	0.000	0.000	88	9.5
Aroclor-1268	1	0.000	0.000	0.000	32	
	2	0.000	0.000	0.000	40	22.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS

Lab Sample ID: B284852-BS1 Date(s) Analyzed: 06/30/2021 06/30/2021
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	2.2	
	2	0.000	0.000	0.000	2.4	8.7
Aroclor-1260	1	0.000	0.000	0.000	2.2	
	2	0.000	0.000	0.000	2.3	4.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS Dup

Lab Sample ID: B284852-BSD1 Date(s) Analyzed: 06/30/2021 06/30/2021
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	2.4	
	2	0.000	0.000	0.000	2.6	8.0
Aroclor-1260	1	0.000	0.000	0.000	2.3	
	2	0.000	0.000	0.000	2.4	4.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS

Lab Sample ID: B284854-BS1 Date(s) Analyzed: 07/02/2021 07/02/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.92	9.1
Aroclor-1260	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.82	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS Dup

Lab Sample ID: B284854-BSD1 Date(s) Analyzed: 07/02/2021 07/02/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.80	
	2	0.000	0.000	0.000	0.86	7.2
Aroclor-1260	1	0.000	0.000	0.000	0.78	
	2	0.000	0.000	0.000	0.77	1.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS

Lab Sample ID: B285201-BS1 Date(s) Analyzed: 07/07/2021 07/07/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.43	15.1
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.36	17.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS Dup

Lab Sample ID: B285201-BSD1 Date(s) Analyzed: 07/07/2021 07/07/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.39	20.7
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.36	17.7

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



ANALYSIS REQUESTED

7-Day ☒ 10-Day ☐ Field Filtered ☐
 PFAS 10-Day (std) ☐ Due Date:
 1-Day ☐ 3-Day ☐ Field Filtered ☐
 2-Day ☐ 4-Day ☐ Lab to Filter ☐
 Format: ☒ PDF ☐ EXCEL
 Other: ☐
 CLP Like Data Pkg Required: ☐
 Email To: Dan Voisin
 Fax To #: 508-234-4541

Project Name: Stone Environmental
 Address: 525 Stone Center's Way, Montpelier
 Phone: 802-234-4541
 Project Location: 100 River St
 Project Number: 19-124
 Project Manager: Dan Voisin
 Con-Test Quote Name/Number: 508-234-4541
 Invoice Recipient: SYS, WLR, DTV
 Sampled By: SYS, WLR, DTV

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
7	100R-WP-03	6/23/21 12:10	12:10	G	0						
8	100R-MS-03-FD	1101									
9	100R-MS-03	1101									
10	100R-PT-24	928									
11	100R-MS-01	1020									
12	100R-PT-06	913									
13	100R-PT-01	950									
14	100R-PT-11	1254									
15	100R-PT-03	1240									

Relinquished by: (signature) [Signature] Date/Time: 6/24/21 4:00 PM
 Received by: (signature) [Signature] Date/Time: 6/24/21 4:00 PM
 Relinquished by: (signature) [Signature] Date/Time: 6/25/21 12:15
 Received by: (signature) [Signature] Date/Time: 6/25/21 12:15
 Relinquished by: (signature) [Signature] Date/Time: 6/25/21 14:20
 Received by: (signature) [Signature] Date/Time: 6/25/21 14:20
 Relinquished by: (signature) [Signature] Date/Time: 6/25/21 14:30
 Received by: (signature) [Signature] Date/Time: 6/25/21 14:30

Client Comments: MA MCP Required
MA MCP Certification Form Required
CT RCP Required
RCP Certification Form Required
MA State Use Request
 Project Name: Stone Environmental
 Project Number: 19-124
 Project Manager: Dan Voisin
 Project Location: 100 River St
 Project Address: 525 Stone Center's Way, Montpelier
 Project Phone: 802-234-4541
 Project Email: info@contestlabs.com
 Project State: VT
 Project City: Montpelier
 Project Zip: 05602
 Project County: Windsor
 Project Country: USA
 Project Latitude: 44.558
 Project Longitude: -72.615
 Project Elevation: 100
 Project Temperature: 60
 Project Humidity: 60
 Project Wind Speed: 60
 Project Wind Direction: 60
 Project Rainfall: 60
 Project Snowfall: 60
 Project Cloud Cover: 60
 Project Visibility: 60
 Project Air Quality: 60
 Project Soil Quality: 60
 Project Water Quality: 60
 Project Plant Quality: 60
 Project Animal Quality: 60
 Project Human Quality: 60
 Project Other: 60

Lab Comments: Disclaimers: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False

Statement will be brought to the attention of the Client - State True or False

Client Stone Environmental

Received By MA

Date 6/25/01

Time 1430

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 6.0
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tamed with? NA

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all Client Analysis T Sampler Name T

pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	15
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

July 22, 2021

Dan Voisin
Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602

Project Location: 100 River St., Springfield, VT
Client Job Number:
Project Number: 19-124
Laboratory Work Order Number: 21F1664

Enclosed are results of analyses for samples received by the laboratory on June 25, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602
ATTN: Dan Voisin

REPORT DATE: 7/22/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 19-124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21F1664

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 100 River St., Springfield, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
100R-PT-09	21F1664-01	Paint		SW-846 8082A	
100R-WP-02	21F1664-02	Wipe		SW-846 8082A	
100R-PT-08	21F1664-03	Paint		SW-846 8082A	
100R-PT-05	21F1664-04	Paint		SW-846 8082A	
100R-WP-03-FD	21F1664-05	Wipe		SW-846 8082A	
65P-CK-04	21F1664-06	Caulk		SW-846 8082A	
65P-CK-04-FD	21F1664-07	Caulk		SW-846 8082A	
EBLK-062421	21F1664-08	Wipe		SW-846 8082A	
65P-WP-04	21F1664-09	Wipe		SW-846 8082A	
65P-WP-05	21F1664-10	Wipe		SW-846 8082A	
100R-PT-03-FD	21F1664-11	Paint		SW-846 8082A	
100R-PT-07	21F1664-12	Paint		SW-846 8082A	
100R-WP-04	21F1664-13	Wipe		SW-846 8082A	
100R-WP-06	21F1664-14	Wipe		SW-846 8082A	
100R-WP-05	21F1664-15	Wipe		SW-846 8082A	
100R-PT-10	21F1664-16	Paint		SW-846 8082A	
100R-WP-01	21F1664-17	Wipe		SW-846 8082A	
100R-PT-02	21F1664-18	Paint		SW-846 8082A	
100R-MS-2	21F1664-19	Product/Solid		SW-846 8082A	
100R-PT-12	21F1664-20	Paint		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 7/22/21- Samples -06, -07, -08, -13 and -14 collected dates revised

SW-846 8082A

Qualifications:**P-02**

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:**Aroclor-1254 [2C]**

21F1664-05[100R-WP-03-FD]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl**

21F1664-13[100R-WP-04], 21F1664-14[100R-WP-06]

Decachlorobiphenyl [2C]

21F1664-13[100R-WP-04], 21F1664-14[100R-WP-06]

Tetrachloro-m-xylene

21F1664-13[100R-WP-04], 21F1664-14[100R-WP-06]

Tetrachloro-m-xylene [2C]

21F1664-13[100R-WP-04], 21F1664-14[100R-WP-06]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Kaitlyn A. Feliciano
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-PT-09

Sampled: 6/23/2021 12:08

Sample ID: 21F1664-01

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:55	JMB
Aroclor-1221 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:55	JMB
Aroclor-1232 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:55	JMB
Aroclor-1242 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:55	JMB
Aroclor-1248 [1]	13	5.0	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:55	JMB
Aroclor-1254 [1]	26	5.0	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:55	JMB
Aroclor-1260 [1]	15	5.0	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:55	JMB
Aroclor-1262 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:55	JMB
Aroclor-1268 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	6/28/21	7/3/21 19:55	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.5	30-150						7/3/21 19:55	
Decachlorobiphenyl [2]	105	30-150						7/3/21 19:55	
Tetrachloro-m-xylene [1]	84.2	30-150						7/3/21 19:55	
Tetrachloro-m-xylene [2]	98.7	30-150						7/3/21 19:55	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-WP-02

Sampled: 6/23/2021 10:05

Sample ID: 21F1664-02

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 22:58	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 22:58	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 22:58	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 22:58	JMB
Aroclor-1248 [1]	0.26	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 22:58	JMB
Aroclor-1254 [1]	1.1	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 22:58	JMB
Aroclor-1260 [1]	0.46	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 22:58	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 22:58	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 22:58	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.9	30-150						7/7/21 22:58	
Decachlorobiphenyl [2]	77.7	30-150						7/7/21 22:58	
Tetrachloro-m-xylene [1]	78.9	30-150						7/7/21 22:58	
Tetrachloro-m-xylene [2]	72.6	30-150						7/7/21 22:58	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-PT-08

Sampled: 6/23/2021 11:58

Sample ID: 21F1664-03

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	10	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 20:13	JMB
Aroclor-1221 [1]	ND	10	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 20:13	JMB
Aroclor-1232 [1]	ND	10	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 20:13	JMB
Aroclor-1242 [1]	ND	10	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 20:13	JMB
Aroclor-1248 [1]	18	10	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 20:13	JMB
Aroclor-1254 [1]	71	10	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 20:13	JMB
Aroclor-1260 [2]	47	10	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 20:13	JMB
Aroclor-1262 [1]	ND	10	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 20:13	JMB
Aroclor-1268 [1]	ND	10	mg/Kg	20		SW-846 8082A	6/28/21	7/3/21 20:13	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.0	30-150						7/3/21 20:13	
Decachlorobiphenyl [2]	97.5	30-150						7/3/21 20:13	
Tetrachloro-m-xylene [1]	71.0	30-150						7/3/21 20:13	
Tetrachloro-m-xylene [2]	77.4	30-150						7/3/21 20:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-PT-05

Sampled: 6/23/2021 09:20

Sample ID: 21F1664-04

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:08	SFM
Aroclor-1221 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:08	SFM
Aroclor-1232 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:08	SFM
Aroclor-1242 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:08	SFM
Aroclor-1248 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:08	SFM
Aroclor-1254 [1]	46	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:08	SFM
Aroclor-1260 [2]	26	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:08	SFM
Aroclor-1262 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:08	SFM
Aroclor-1268 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:08	SFM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.4	30-150						7/8/21 18:08	
Decachlorobiphenyl [2]	94.7	30-150						7/8/21 18:08	
Tetrachloro-m-xylene [1]	80.2	30-150						7/8/21 18:08	
Tetrachloro-m-xylene [2]	84.1	30-150						7/8/21 18:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-WP-03-FD

Sampled: 6/23/2021 10:30

Sample ID: 21F1664-05

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:16	JMB
Aroclor-1254 [2]	0.70	0.20	µg/Wipe	1	P-02	SW-846 8082A	7/2/21	7/7/21 23:16	JMB
Aroclor-1260 [1]	1.8	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:16	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.2	30-150						7/7/21 23:16	
Decachlorobiphenyl [2]	81.9	30-150						7/7/21 23:16	
Tetrachloro-m-xylene [1]	74.7	30-150						7/7/21 23:16	
Tetrachloro-m-xylene [2]	68.7	30-150						7/7/21 23:16	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 65P-CK-04

Sampled: 6/24/2021 09:30

Sample ID: 21F1664-06

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/8/21 23:45	TG
Aroclor-1221 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/8/21 23:45	TG
Aroclor-1232 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/8/21 23:45	TG
Aroclor-1242 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/8/21 23:45	TG
Aroclor-1248 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/8/21 23:45	TG
Aroclor-1254 [1]	6.0	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/8/21 23:45	TG
Aroclor-1260 [1]	3.5	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/8/21 23:45	TG
Aroclor-1262 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/8/21 23:45	TG
Aroclor-1268 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/8/21 23:45	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	93.4	30-150						7/8/21 23:45	
Decachlorobiphenyl [2]	89.2	30-150						7/8/21 23:45	
Tetrachloro-m-xylene [1]	93.6	30-150						7/8/21 23:45	
Tetrachloro-m-xylene [2]	93.3	30-150						7/8/21 23:45	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 65P-CK-04-FD

Sampled: 6/24/2021 09:30

Sample ID: 21F1664-07

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/9/21 0:02	TG
Aroclor-1221 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/9/21 0:02	TG
Aroclor-1232 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/9/21 0:02	TG
Aroclor-1242 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/9/21 0:02	TG
Aroclor-1248 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/9/21 0:02	TG
Aroclor-1254 [2]	7.1	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/9/21 0:02	TG
Aroclor-1260 [1]	2.8	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/9/21 0:02	TG
Aroclor-1262 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/9/21 0:02	TG
Aroclor-1268 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/28/21	7/9/21 0:02	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	94.9	30-150						7/9/21 0:02	
Decachlorobiphenyl [2]	89.2	30-150						7/9/21 0:02	
Tetrachloro-m-xylene [1]	93.5	30-150						7/9/21 0:02	
Tetrachloro-m-xylene [2]	94.5	30-150						7/9/21 0:02	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: EBLK-062421

Sampled: 6/24/2021 09:55

Sample ID: 21F1664-08

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:33	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:33	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:33	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:33	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:33	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:33	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:33	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:33	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/7/21 23:33	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.9	30-150						7/7/21 23:33	
Decachlorobiphenyl [2]	82.5	30-150						7/7/21 23:33	
Tetrachloro-m-xylene [1]	84.3	30-150						7/7/21 23:33	
Tetrachloro-m-xylene [2]	77.7	30-150						7/7/21 23:33	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 65P-WP-04

Sampled: 6/23/2021 09:10

Sample ID: 21F1664-09

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 0:56	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 0:56	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 0:56	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 0:56	JMB
Aroclor-1248 [1]	1.2	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 0:56	JMB
Aroclor-1254 [1]	4.1	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 0:56	JMB
Aroclor-1260 [1]	1.5	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 0:56	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 0:56	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 0:56	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.8	30-150						7/8/21 0:56	
Decachlorobiphenyl [2]	67.9	30-150						7/8/21 0:56	
Tetrachloro-m-xylene [1]	75.9	30-150						7/8/21 0:56	
Tetrachloro-m-xylene [2]	70.9	30-150						7/8/21 0:56	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 65P-WP-05

Sampled: 6/23/2021 10:18

Sample ID: 21F1664-10

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	7/2/21	7/8/21 13:36	JMB
Aroclor-1221 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	7/2/21	7/8/21 13:36	JMB
Aroclor-1232 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	7/2/21	7/8/21 13:36	JMB
Aroclor-1242 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	7/2/21	7/8/21 13:36	JMB
Aroclor-1248 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	7/2/21	7/8/21 13:36	JMB
Aroclor-1254 [1]	8.1	2.0	µg/Wipe	10		SW-846 8082A	7/2/21	7/8/21 13:36	JMB
Aroclor-1260 [1]	12	2.0	µg/Wipe	10		SW-846 8082A	7/2/21	7/8/21 13:36	JMB
Aroclor-1262 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	7/2/21	7/8/21 13:36	JMB
Aroclor-1268 [1]	ND	2.0	µg/Wipe	10		SW-846 8082A	7/2/21	7/8/21 13:36	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.4	30-150						7/8/21 13:36	
Decachlorobiphenyl [2]	68.4	30-150						7/8/21 13:36	
Tetrachloro-m-xylene [1]	84.4	30-150						7/8/21 13:36	
Tetrachloro-m-xylene [2]	77.6	30-150						7/8/21 13:36	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-PT-03-FD

Sampled: 6/23/2021 10:50

Sample ID: 21F1664-11

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:26	SFM
Aroclor-1221 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:26	SFM
Aroclor-1232 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:26	SFM
Aroclor-1242 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:26	SFM
Aroclor-1248 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:26	SFM
Aroclor-1254 [1]	46	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:26	SFM
Aroclor-1260 [2]	64	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:26	SFM
Aroclor-1262 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:26	SFM
Aroclor-1268 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:26	SFM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	103	30-150						7/8/21 18:26	
Decachlorobiphenyl [2]	97.0	30-150						7/8/21 18:26	
Tetrachloro-m-xylene [1]	80.5	30-150						7/8/21 18:26	
Tetrachloro-m-xylene [2]	83.0	30-150						7/8/21 18:26	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-PT-07

Sampled: 6/23/2021 11:53

Sample ID: 21F1664-12

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:43	SFM
Aroclor-1221 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:43	SFM
Aroclor-1232 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:43	SFM
Aroclor-1242 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:43	SFM
Aroclor-1248 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:43	SFM
Aroclor-1254 [1]	36	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:43	SFM
Aroclor-1260 [2]	29	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:43	SFM
Aroclor-1262 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:43	SFM
Aroclor-1268 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 18:43	SFM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.7	30-150						7/8/21 18:43	
Decachlorobiphenyl [2]	94.5	30-150						7/8/21 18:43	
Tetrachloro-m-xylene [1]	82.4	30-150						7/8/21 18:43	
Tetrachloro-m-xylene [2]	86.7	30-150						7/8/21 18:43	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-WP-04

Sampled: 6/24/2021 13:45

Sample ID: 21F1664-13

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	10	µg/Wipe	50		SW-846 8082A	7/2/21	7/8/21 13:53	JMB
Aroclor-1221 [1]	ND	10	µg/Wipe	50		SW-846 8082A	7/2/21	7/8/21 13:53	JMB
Aroclor-1232 [1]	ND	10	µg/Wipe	50		SW-846 8082A	7/2/21	7/8/21 13:53	JMB
Aroclor-1242 [1]	ND	10	µg/Wipe	50		SW-846 8082A	7/2/21	7/8/21 13:53	JMB
Aroclor-1248 [1]	ND	10	µg/Wipe	50		SW-846 8082A	7/2/21	7/8/21 13:53	JMB
Aroclor-1254 [1]	120	10	µg/Wipe	50		SW-846 8082A	7/2/21	7/8/21 13:53	JMB
Aroclor-1260 [1]	45	10	µg/Wipe	50		SW-846 8082A	7/2/21	7/8/21 13:53	JMB
Aroclor-1262 [1]	ND	10	µg/Wipe	50		SW-846 8082A	7/2/21	7/8/21 13:53	JMB
Aroclor-1268 [1]	ND	10	µg/Wipe	50		SW-846 8082A	7/2/21	7/8/21 13:53	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			7/8/21 13:53	
Decachlorobiphenyl [2]	*	30-150			S-01			7/8/21 13:53	
Tetrachloro-m-xylene [1]	*	30-150			S-01			7/8/21 13:53	
Tetrachloro-m-xylene [2]	*	30-150			S-01			7/8/21 13:53	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-WP-06

Sampled: 6/24/2021 13:55

Sample ID: 21F1664-14

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.0	µg/Wipe	40		SW-846 8082A	7/2/21	7/8/21 14:11	JMB
Aroclor-1221 [1]	ND	8.0	µg/Wipe	40		SW-846 8082A	7/2/21	7/8/21 14:11	JMB
Aroclor-1232 [1]	ND	8.0	µg/Wipe	40		SW-846 8082A	7/2/21	7/8/21 14:11	JMB
Aroclor-1242 [1]	ND	8.0	µg/Wipe	40		SW-846 8082A	7/2/21	7/8/21 14:11	JMB
Aroclor-1248 [1]	ND	8.0	µg/Wipe	40		SW-846 8082A	7/2/21	7/8/21 14:11	JMB
Aroclor-1254 [1]	32	8.0	µg/Wipe	40		SW-846 8082A	7/2/21	7/8/21 14:11	JMB
Aroclor-1260 [1]	37	8.0	µg/Wipe	40		SW-846 8082A	7/2/21	7/8/21 14:11	JMB
Aroclor-1262 [1]	ND	8.0	µg/Wipe	40		SW-846 8082A	7/2/21	7/8/21 14:11	JMB
Aroclor-1268 [1]	ND	8.0	µg/Wipe	40		SW-846 8082A	7/2/21	7/8/21 14:11	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			7/8/21 14:11	
Decachlorobiphenyl [2]	*	30-150			S-01			7/8/21 14:11	
Tetrachloro-m-xylene [1]	*	30-150			S-01			7/8/21 14:11	
Tetrachloro-m-xylene [2]	*	30-150			S-01			7/8/21 14:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-WP-05

Sampled: 6/23/2021 13:50

Sample ID: 21F1664-15

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	7/2/21	7/8/21 14:28	JMB
Aroclor-1221 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	7/2/21	7/8/21 14:28	JMB
Aroclor-1232 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	7/2/21	7/8/21 14:28	JMB
Aroclor-1242 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	7/2/21	7/8/21 14:28	JMB
Aroclor-1248 [1]	6.8	4.0	µg/Wipe	20		SW-846 8082A	7/2/21	7/8/21 14:28	JMB
Aroclor-1254 [1]	25	4.0	µg/Wipe	20		SW-846 8082A	7/2/21	7/8/21 14:28	JMB
Aroclor-1260 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	7/2/21	7/8/21 14:28	JMB
Aroclor-1262 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	7/2/21	7/8/21 14:28	JMB
Aroclor-1268 [1]	ND	4.0	µg/Wipe	20		SW-846 8082A	7/2/21	7/8/21 14:28	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	78.7	30-150						7/8/21 14:28	
Decachlorobiphenyl [2]	67.3	30-150						7/8/21 14:28	
Tetrachloro-m-xylene [1]	84.8	30-150						7/8/21 14:28	
Tetrachloro-m-xylene [2]	79.1	30-150						7/8/21 14:28	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-PT-10

Sampled: 6/23/2021 00:00

Sample ID: 21F1664-16

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:01	SFM
Aroclor-1221 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:01	SFM
Aroclor-1232 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:01	SFM
Aroclor-1242 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:01	SFM
Aroclor-1248 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:01	SFM
Aroclor-1254 [1]	37	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:01	SFM
Aroclor-1260 [2]	31	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:01	SFM
Aroclor-1262 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:01	SFM
Aroclor-1268 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:01	SFM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.5	30-150						7/8/21 19:01	
Decachlorobiphenyl [2]	94.8	30-150						7/8/21 19:01	
Tetrachloro-m-xylene [1]	87.5	30-150						7/8/21 19:01	
Tetrachloro-m-xylene [2]	92.2	30-150						7/8/21 19:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-WP-01

Sampled: 6/23/2021 09:42

Sample ID: 21F1664-17

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 2:23	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 2:23	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 2:23	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 2:23	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 2:23	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 2:23	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 2:23	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 2:23	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	7/2/21	7/8/21 2:23	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.9	30-150						7/8/21 2:23	
Decachlorobiphenyl [2]	65.4	30-150						7/8/21 2:23	
Tetrachloro-m-xylene [1]	76.4	30-150						7/8/21 2:23	
Tetrachloro-m-xylene [2]	69.8	30-150						7/8/21 2:23	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-PT-02

Sampled: 6/23/2021 10:08

Sample ID: 21F1664-18

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:19	SFM
Aroclor-1221 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:19	SFM
Aroclor-1232 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:19	SFM
Aroclor-1242 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:19	SFM
Aroclor-1248 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:19	SFM
Aroclor-1254 [1]	54	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:19	SFM
Aroclor-1260 [1]	23	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:19	SFM
Aroclor-1262 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:19	SFM
Aroclor-1268 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:19	SFM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	98.8	30-150						7/8/21 19:19	
Decachlorobiphenyl [2]	100	30-150						7/8/21 19:19	
Tetrachloro-m-xylene [1]	89.3	30-150						7/8/21 19:19	
Tetrachloro-m-xylene [2]	93.7	30-150						7/8/21 19:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-MS-2

Sampled: 6/23/2021 10:31

Sample ID: 21F1664-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/29/21	7/6/21 18:44	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/29/21	7/6/21 18:44	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/29/21	7/6/21 18:44	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/29/21	7/6/21 18:44	JMB
Aroclor-1248 [1]	0.11	0.096	mg/Kg	1		SW-846 8082A	6/29/21	7/6/21 18:44	JMB
Aroclor-1254 [1]	0.39	0.096	mg/Kg	1		SW-846 8082A	6/29/21	7/6/21 18:44	JMB
Aroclor-1260 [1]	0.25	0.096	mg/Kg	1		SW-846 8082A	6/29/21	7/6/21 18:44	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/29/21	7/6/21 18:44	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	6/29/21	7/6/21 18:44	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	58.3	30-150						7/6/21 18:44	
Decachlorobiphenyl [2]	55.4	30-150						7/6/21 18:44	
Tetrachloro-m-xylene [1]	59.9	30-150						7/6/21 18:44	
Tetrachloro-m-xylene [2]	60.5	30-150						7/6/21 18:44	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21F1664

Date Received: 6/25/2021

Field Sample #: 100R-PT-12

Sampled: 6/23/2021 13:10

Sample ID: 21F1664-20

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:37	SFM
Aroclor-1221 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:37	SFM
Aroclor-1232 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:37	SFM
Aroclor-1242 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:37	SFM
Aroclor-1248 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:37	SFM
Aroclor-1254 [1]	47	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:37	SFM
Aroclor-1260 [2]	30	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:37	SFM
Aroclor-1262 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:37	SFM
Aroclor-1268 [1]	ND	4.8	mg/Kg	10		SW-846 8082A	7/1/21	7/8/21 19:37	SFM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.9	30-150						7/8/21 19:37	
Decachlorobiphenyl [2]	99.3	30-150						7/8/21 19:37	
Tetrachloro-m-xylene [1]	90.6	30-150						7/8/21 19:37	
Tetrachloro-m-xylene [2]	95.3	30-150						7/8/21 19:37	

Sample Extraction Data

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21F1664-06 [65P-CK-04]	B284847	0.507	10.0	06/28/21
21F1664-07 [65P-CK-04-FD]	B284847	0.507	10.0	06/28/21

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21F1664-01 [100R-PT-09]	B284852	0.201	10.0	06/28/21
21F1664-03 [100R-PT-08]	B284852	0.200	10.0	06/28/21

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21F1664-04 [100R-PT-05]	B285126	0.207	10.0	07/01/21
21F1664-11 [100R-PT-03-FD]	B285126	0.201	10.0	07/01/21
21F1664-12 [100R-PT-07]	B285126	0.200	10.0	07/01/21
21F1664-16 [100R-PT-10]	B285126	0.207	10.0	07/01/21
21F1664-18 [100R-PT-02]	B285126	0.207	10.0	07/01/21
21F1664-20 [100R-PT-12]	B285126	0.207	10.0	07/01/21

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21F1664-19 [100R-MS-2]	B284956	2.08	10.0	06/29/21

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
21F1664-02 [100R-WP-02]	B285201	1.00	10.0	07/02/21
21F1664-05 [100R-WP-03-FD]	B285201	1.00	10.0	07/02/21
21F1664-08 [EBLK-062421]	B285201	1.00	10.0	07/02/21
21F1664-09 [65P-WP-04]	B285201	1.00	10.0	07/02/21
21F1664-10 [65P-WP-05]	B285201	1.00	10.0	07/02/21
21F1664-13 [100R-WP-04]	B285201	1.00	10.0	07/02/21
21F1664-14 [100R-WP-06]	B285201	1.00	10.0	07/02/21
21F1664-15 [100R-WP-05]	B285201	1.00	10.0	07/02/21
21F1664-17 [100R-WP-01]	B285201	1.00	10.0	07/02/21

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B284847 - SW-846 3540C
Blank (B284847-BLK1)

Prepared: 06/28/21 Analyzed: 07/08/21

Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	3.37		mg/Kg	3.95		85.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.24		mg/Kg	3.95		81.9	30-150			
Surrogate: Tetrachloro-m-xylene	3.45		mg/Kg	3.95		87.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.39		mg/Kg	3.95		85.8	30-150			

LCS (B284847-BS1)

Prepared: 06/28/21 Analyzed: 07/08/21

Aroclor-1016	3.2	0.20	mg/Kg	3.94		81.0	40-140			
Aroclor-1016 [2C]	3.1	0.20	mg/Kg	3.94		78.0	40-140			
Aroclor-1260	3.0	0.20	mg/Kg	3.94		76.1	40-140			
Aroclor-1260 [2C]	2.8	0.20	mg/Kg	3.94		70.6	40-140			
Surrogate: Decachlorobiphenyl	3.33		mg/Kg	3.94		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.19		mg/Kg	3.94		81.0	30-150			
Surrogate: Tetrachloro-m-xylene	3.04		mg/Kg	3.94		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.98		mg/Kg	3.94		75.5	30-150			

LCS Dup (B284847-BSD1)

Prepared: 06/28/21 Analyzed: 07/08/21

Aroclor-1016	3.4	0.20	mg/Kg	3.99		84.1	40-140	4.91	30	
Aroclor-1016 [2C]	3.2	0.20	mg/Kg	3.99		79.6	40-140	3.12	30	
Aroclor-1260	3.0	0.20	mg/Kg	3.99		74.5	40-140	1.08	30	
Aroclor-1260 [2C]	2.7	0.20	mg/Kg	3.99		68.8	40-140	1.48	30	
Surrogate: Decachlorobiphenyl	3.24		mg/Kg	3.99		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.10		mg/Kg	3.99		77.7	30-150			
Surrogate: Tetrachloro-m-xylene	3.23		mg/Kg	3.99		81.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.18		mg/Kg	3.99		79.8	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B284852 - SW-846 3540C
Blank (B284852-BLK1)

Prepared: 06/28/21 Analyzed: 06/30/21

Aroclor-1016	ND	0.50	mg/Kg							
Aroclor-1016 [2C]	ND	0.50	mg/Kg							
Aroclor-1221	ND	0.50	mg/Kg							
Aroclor-1221 [2C]	ND	0.50	mg/Kg							
Aroclor-1232	ND	0.50	mg/Kg							
Aroclor-1232 [2C]	ND	0.50	mg/Kg							
Aroclor-1242	ND	0.50	mg/Kg							
Aroclor-1242 [2C]	ND	0.50	mg/Kg							
Aroclor-1248	ND	0.50	mg/Kg							
Aroclor-1248 [2C]	ND	0.50	mg/Kg							
Aroclor-1254	ND	0.50	mg/Kg							
Aroclor-1254 [2C]	ND	0.50	mg/Kg							
Aroclor-1260	ND	0.50	mg/Kg							
Aroclor-1260 [2C]	ND	0.50	mg/Kg							
Aroclor-1262	ND	0.50	mg/Kg							
Aroclor-1262 [2C]	ND	0.50	mg/Kg							
Aroclor-1268	ND	0.50	mg/Kg							
Aroclor-1268 [2C]	ND	0.50	mg/Kg							
Surrogate: Decachlorobiphenyl	8.97		mg/Kg	9.91		90.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	9.16		mg/Kg	9.91		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	7.59		mg/Kg	9.91		76.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.10		mg/Kg	9.91		81.7	30-150			

LCS (B284852-BS1)

Prepared: 06/28/21 Analyzed: 06/30/21

Aroclor-1016	2.2	0.48	mg/Kg	2.42		91.2	40-140			
Aroclor-1016 [2C]	2.4	0.48	mg/Kg	2.42		101	40-140			
Aroclor-1260	2.2	0.48	mg/Kg	2.42		92.1	40-140			
Aroclor-1260 [2C]	2.3	0.48	mg/Kg	2.42		96.3	40-140			
Surrogate: Decachlorobiphenyl	8.65		mg/Kg	9.67		89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.84		mg/Kg	9.67		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	7.24		mg/Kg	9.67		74.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	7.70		mg/Kg	9.67		79.7	30-150			

LCS Dup (B284852-BSD1)

Prepared: 06/28/21 Analyzed: 06/30/21

Aroclor-1016	2.4	0.50	mg/Kg	2.49		94.9	40-140	6.94	30	
Aroclor-1016 [2C]	2.6	0.50	mg/Kg	2.49		105	40-140	7.37	30	
Aroclor-1260	2.3	0.50	mg/Kg	2.49		92.9	40-140	3.77	30	
Aroclor-1260 [2C]	2.4	0.50	mg/Kg	2.49		97.6	40-140	4.28	30	
Surrogate: Decachlorobiphenyl	8.88		mg/Kg	9.96		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	9.06		mg/Kg	9.96		91.0	30-150			
Surrogate: Tetrachloro-m-xylene	8.33		mg/Kg	9.96		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.86		mg/Kg	9.96		89.0	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B284956 - SW-846 3540C
Blank (B284956-BLK1)

Prepared: 06/29/21 Analyzed: 07/06/21

Aroclor-1016	ND	0.098	mg/Kg							
Aroclor-1016 [2C]	ND	0.098	mg/Kg							
Aroclor-1221	ND	0.098	mg/Kg							
Aroclor-1221 [2C]	ND	0.098	mg/Kg							
Aroclor-1232	ND	0.098	mg/Kg							
Aroclor-1232 [2C]	ND	0.098	mg/Kg							
Aroclor-1242	ND	0.098	mg/Kg							
Aroclor-1242 [2C]	ND	0.098	mg/Kg							
Aroclor-1248	ND	0.098	mg/Kg							
Aroclor-1248 [2C]	ND	0.098	mg/Kg							
Aroclor-1254	ND	0.098	mg/Kg							
Aroclor-1254 [2C]	ND	0.098	mg/Kg							
Aroclor-1260	ND	0.098	mg/Kg							
Aroclor-1260 [2C]	ND	0.098	mg/Kg							
Aroclor-1262	ND	0.098	mg/Kg							
Aroclor-1262 [2C]	ND	0.098	mg/Kg							
Aroclor-1268	ND	0.098	mg/Kg							
Aroclor-1268 [2C]	ND	0.098	mg/Kg							
Surrogate: Decachlorobiphenyl	0.864		mg/Kg	0.980		88.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.831		mg/Kg	0.980		84.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.780		mg/Kg	0.980		79.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.780		mg/Kg	0.980		79.6	30-150			

LCS (B284956-BS1)

Prepared: 06/29/21 Analyzed: 07/06/21

Aroclor-1016	0.91	0.099	mg/Kg	0.985		92.2	40-140			
Aroclor-1016 [2C]	0.82	0.099	mg/Kg	0.985		83.0	40-140			
Aroclor-1260	0.79	0.099	mg/Kg	0.985		80.3	40-140			
Aroclor-1260 [2C]	0.75	0.099	mg/Kg	0.985		75.8	40-140			
Surrogate: Decachlorobiphenyl	0.879		mg/Kg	0.985		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.843		mg/Kg	0.985		85.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.852		mg/Kg	0.985		86.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.870		mg/Kg	0.985		88.3	30-150			

LCS Dup (B284956-BSD1)

Prepared: 06/29/21 Analyzed: 07/06/21

Aroclor-1016	0.78	0.098	mg/Kg	0.976		79.9	40-140	15.3	30	
Aroclor-1016 [2C]	0.65	0.098	mg/Kg	0.976		66.9	40-140	22.4	30	
Aroclor-1260	0.62	0.098	mg/Kg	0.976		63.5	40-140	24.2	30	
Aroclor-1260 [2C]	0.59	0.098	mg/Kg	0.976		60.3	40-140	23.7	30	
Surrogate: Decachlorobiphenyl	0.683		mg/Kg	0.976		70.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.653		mg/Kg	0.976		66.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.702		mg/Kg	0.976		71.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.724		mg/Kg	0.976		74.3	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285126 - SW-846 3540C
Blank (B285126-BLK1)

Prepared: 07/01/21 Analyzed: 07/08/21

Aroclor-1016	ND	0.49	mg/Kg							
Aroclor-1016 [2C]	ND	0.49	mg/Kg							
Aroclor-1221	ND	0.49	mg/Kg							
Aroclor-1221 [2C]	ND	0.49	mg/Kg							
Aroclor-1232	ND	0.49	mg/Kg							
Aroclor-1232 [2C]	ND	0.49	mg/Kg							
Aroclor-1242	ND	0.49	mg/Kg							
Aroclor-1242 [2C]	ND	0.49	mg/Kg							
Aroclor-1248	ND	0.49	mg/Kg							
Aroclor-1248 [2C]	ND	0.49	mg/Kg							
Aroclor-1254	ND	0.49	mg/Kg							
Aroclor-1254 [2C]	ND	0.49	mg/Kg							
Aroclor-1260	ND	0.49	mg/Kg							
Aroclor-1260 [2C]	ND	0.49	mg/Kg							
Aroclor-1262	ND	0.49	mg/Kg							
Aroclor-1262 [2C]	ND	0.49	mg/Kg							
Aroclor-1268	ND	0.49	mg/Kg							
Aroclor-1268 [2C]	ND	0.49	mg/Kg							
Surrogate: Decachlorobiphenyl	8.62		mg/Kg	9.76		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.94		mg/Kg	9.76		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	7.98		mg/Kg	9.76		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.06		mg/Kg	9.76		82.6	30-150			

LCS (B285126-BS1)

Prepared: 07/01/21 Analyzed: 07/08/21

Aroclor-1016	2.4	0.49	mg/Kg	2.45		97.0	40-140			
Aroclor-1016 [2C]	2.4	0.49	mg/Kg	2.45		96.2	40-140			
Aroclor-1260	2.2	0.49	mg/Kg	2.45		91.7	40-140			
Aroclor-1260 [2C]	2.2	0.49	mg/Kg	2.45		87.9	40-140			
Surrogate: Decachlorobiphenyl	8.66		mg/Kg	9.80		88.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.98		mg/Kg	9.80		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	8.32		mg/Kg	9.80		84.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.43		mg/Kg	9.80		86.0	30-150			

LCS Dup (B285126-BSD1)

Prepared: 07/01/21 Analyzed: 07/08/21

Aroclor-1016	2.4	0.47	mg/Kg	2.37		99.4	40-140	0.881	30	
Aroclor-1016 [2C]	2.4	0.47	mg/Kg	2.37		101	40-140	1.44	30	
Aroclor-1260	2.2	0.47	mg/Kg	2.37		94.7	40-140	0.160	30	
Aroclor-1260 [2C]	2.2	0.47	mg/Kg	2.37		91.0	40-140	0.0606	30	
Surrogate: Decachlorobiphenyl	8.70		mg/Kg	9.48		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	9.00		mg/Kg	9.48		94.9	30-150			
Surrogate: Tetrachloro-m-xylene	8.03		mg/Kg	9.48		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.21		mg/Kg	9.48		86.6	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285201 - SW-846 3540C
Blank (B285201-BLK1)

Prepared: 07/01/21 Analyzed: 07/07/21

Aroclor-1016	ND	0.20	µg/Wipe							
Aroclor-1016 [2C]	ND	0.20	µg/Wipe							
Aroclor-1221	ND	0.20	µg/Wipe							
Aroclor-1221 [2C]	ND	0.20	µg/Wipe							
Aroclor-1232	ND	0.20	µg/Wipe							
Aroclor-1232 [2C]	ND	0.20	µg/Wipe							
Aroclor-1242	ND	0.20	µg/Wipe							
Aroclor-1242 [2C]	ND	0.20	µg/Wipe							
Aroclor-1248	ND	0.20	µg/Wipe							
Aroclor-1248 [2C]	ND	0.20	µg/Wipe							
Aroclor-1254	ND	0.20	µg/Wipe							
Aroclor-1254 [2C]	ND	0.20	µg/Wipe							
Aroclor-1260	ND	0.20	µg/Wipe							
Aroclor-1260 [2C]	ND	0.20	µg/Wipe							
Aroclor-1262	ND	0.20	µg/Wipe							
Aroclor-1262 [2C]	ND	0.20	µg/Wipe							
Aroclor-1268	ND	0.20	µg/Wipe							
Aroclor-1268 [2C]	ND	0.20	µg/Wipe							
Surrogate: Decachlorobiphenyl	1.70		µg/Wipe	2.00		84.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.54		µg/Wipe	2.00		76.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.55		µg/Wipe	2.00		77.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.44		µg/Wipe	2.00		71.8	30-150			

LCS (B285201-BS1)

Prepared: 07/01/21 Analyzed: 07/07/21

Aroclor-1016	0.50	0.20	µg/Wipe	0.500		99.1	40-140			
Aroclor-1016 [2C]	0.43	0.20	µg/Wipe	0.500		86.3	40-140			
Aroclor-1260	0.43	0.20	µg/Wipe	0.500		86.6	40-140			
Aroclor-1260 [2C]	0.36	0.20	µg/Wipe	0.500		72.4	40-140			
Surrogate: Decachlorobiphenyl	1.78		µg/Wipe	2.00		89.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.62		µg/Wipe	2.00		81.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.56		µg/Wipe	2.00		78.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.46		µg/Wipe	2.00		73.1	30-150			

LCS Dup (B285201-BSD1)

Prepared: 07/01/21 Analyzed: 07/07/21

Aroclor-1016	0.48	0.20	µg/Wipe	0.500		95.5	40-140	3.70	30	
Aroclor-1016 [2C]	0.39	0.20	µg/Wipe	0.500		78.9	40-140	8.98	30	
Aroclor-1260	0.43	0.20	µg/Wipe	0.500		85.8	40-140	0.842	30	
Aroclor-1260 [2C]	0.36	0.20	µg/Wipe	0.500		72.0	40-140	0.527	30	
Surrogate: Decachlorobiphenyl	1.70		µg/Wipe	2.00		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.53		µg/Wipe	2.00		76.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.43		µg/Wipe	2.00		71.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.32		µg/Wipe	2.00		66.1	30-150			

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

100R-PT-09

SW-846 8082A

Lab Sample ID: 21F1664-01 Date(s) Analyzed: 07/03/2021 07/03/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	13	
	2	0.000	0.000	0.000	12	8.0
Aroclor-1254	1	0.000	0.000	0.000	26	
	2	0.000	0.000	0.000	34	26.7
Aroclor-1260	1	0.000	0.000	0.000	15	
	2	0.000	0.000	0.000	17	6.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-WP-02

Lab Sample ID: 21F1664-02 Date(s) Analyzed: 07/07/2021 07/07/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.26	
	2	0.000	0.000	0.000	0.21	21.3
Aroclor-1254	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	0.86	24.5
Aroclor-1260	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.38	19.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-PT-08

Lab Sample ID: 21F1664-03 Date(s) Analyzed: 07/03/2021 07/03/2021

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	18	
	2	0.000	0.000	0.000	14	25.0
Aroclor-1254	1	0.000	0.000	0.000	71	
	2	0.000	0.000	0.000	67	5.8
Aroclor-1260	1	0.000	0.000	0.000	42	
	2	0.000	0.000	0.000	47	11.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-PT-05

Lab Sample ID: 21F1664-04 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	46	
	2	0.000	0.000	0.000	45	2.2
Aroclor-1260	1	0.000	0.000	0.000	25	
	2	0.000	0.000	0.000	26	3.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-WP-03-FD

Lab Sample ID: 21F1664-05 Date(s) Analyzed: 07/07/2021 07/07/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	0.70	44.4
Aroclor-1260	1	0.000	0.000	0.000	1.8	
	2	0.000	0.000	0.000	1.5	18.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

65P-CK-04

Lab Sample ID: 21F1664-06 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	6.0	
	2	0.000	0.000	0.000	5.3	12.4
Aroclor-1260	1	0.000	0.000	0.000	3.5	
	2	0.000	0.000	0.000	3.3	5.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

65P-CK-04-FD

Lab Sample ID: 21F1664-07 Date(s) Analyzed: 07/09/2021 07/09/2021
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	7.0	
	2	0.000	0.000	0.000	7.1	1.4
Aroclor-1260	1	0.000	0.000	0.000	2.8	
	2	0.000	0.000	0.000	2.6	7.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

65P-WP-04

Lab Sample ID: 21F1664-09 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	1.2	
	2	0.000	0.000	0.000	0.96	22.2
Aroclor-1254	1	0.000	0.000	0.000	4.1	
	2	0.000	0.000	0.000	3.8	7.6
Aroclor-1260	1	0.000	0.000	0.000	1.5	
	2	0.000	0.000	0.000	1.3	14.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

65P-WP-05

Lab Sample ID: 21F1664-10 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	8.1	
	2	0.000	0.000	0.000	6.7	18.9
Aroclor-1260	1	0.000	0.000	0.000	12	
	2	0.000	0.000	0.000	10	18.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-PT-03-FD

Lab Sample ID: 21F1664-11 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	46	
	2	0.000	0.000	0.000	45	2.2
Aroclor-1260	1	0.000	0.000	0.000	58	
	2	0.000	0.000	0.000	64	9.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-PT-07

Lab Sample ID: 21F1664-12 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	36	
	2	0.000	0.000	0.000	35	2.8
Aroclor-1260	1	0.000	0.000	0.000	26	
	2	0.000	0.000	0.000	29	10.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

100R-WP-04

SW-846 8082A

Lab Sample ID: 21F1664-13 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	120	
	2	0.000	0.000	0.000	120	8.0
Aroclor-1260	1	0.000	0.000	0.000	45	
	2	0.000	0.000	0.000	37	19.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-WP-06

Lab Sample ID: 21F1664-14 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	32	
	2	0.000	0.000	0.000	28	13.3
Aroclor-1260	1	0.000	0.000	0.000	37	
	2	0.000	0.000	0.000	31	17.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

100R-WP-05

SW-846 8082A

Lab Sample ID: 21F1664-15 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	6.8	
	2	0.000	0.000	0.000	4.6	38.6
Aroclor-1254	1	0.000	0.000	0.000	25	
	2	0.000	0.000	0.000	22	16.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

100R-PT-10

SW-846 8082A

Lab Sample ID: 21F1664-16 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	37	
	2	0.000	0.000	0.000	35	5.6
Aroclor-1260	1	0.000	0.000	0.000	29	
	2	0.000	0.000	0.000	31	3.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

100R-PT-02

SW-846 8082A

Lab Sample ID: 21F1664-18 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	54	
	2	0.000	0.000	0.000	53	1.9
Aroclor-1260	1	0.000	0.000	0.000	23	
	2	0.000	0.000	0.000	22	4.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

100R-MS-2

Lab Sample ID: 21F1664-19 Date(s) Analyzed: 07/06/2021 07/06/2021
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.39	
	2	0.000	0.000	0.000	0.36	8.0
Aroclor-1260	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.24	4.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

100R-PT-12

SW-846 8082A

Lab Sample ID: 21F1664-20 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	47	
	2	0.000	0.000	0.000	44	6.6
Aroclor-1260	1	0.000	0.000	0.000	29	
	2	0.000	0.000	0.000	30	3.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS

Lab Sample ID: B284847-BS1 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	3.2	
	2	0.000	0.000	0.000	3.1	3.2
Aroclor-1260	1	0.000	0.000	0.000	3.0	
	2	0.000	0.000	0.000	2.8	6.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS Dup

Lab Sample ID: B284847-BSD1 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	3.4	
	2	0.000	0.000	0.000	3.2	6.1
Aroclor-1260	1	0.000	0.000	0.000	3.0	
	2	0.000	0.000	0.000	2.7	10.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS

Lab Sample ID: B284852-BS1 Date(s) Analyzed: 06/30/2021 06/30/2021
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	2.2	
	2	0.000	0.000	0.000	2.4	8.7
Aroclor-1260	1	0.000	0.000	0.000	2.2	
	2	0.000	0.000	0.000	2.3	4.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS Dup

Lab Sample ID: B284852-BSD1 Date(s) Analyzed: 06/30/2021 06/30/2021
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	2.4	
	2	0.000	0.000	0.000	2.6	8.0
Aroclor-1260	1	0.000	0.000	0.000	2.3	
	2	0.000	0.000	0.000	2.4	4.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS

Lab Sample ID: B284956-BS1 Date(s) Analyzed: 07/06/2021 07/06/2021
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.91	
	2	0.000	0.000	0.000	0.82	10.4
Aroclor-1260	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.75	5.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS Dup

Lab Sample ID: B284956-BSD1 Date(s) Analyzed: 07/06/2021 07/06/2021
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.78	
	2	0.000	0.000	0.000	0.65	18.2
Aroclor-1260	1	0.000	0.000	0.000	0.62	
	2	0.000	0.000	0.000	0.59	5.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS

Lab Sample ID: B285126-BS1 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	2.4	
	2	0.000	0.000	0.000	2.4	0.0
Aroclor-1260	1	0.000	0.000	0.000	2.2	
	2	0.000	0.000	0.000	2.2	4.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS Dup

Lab Sample ID: B285126-BSD1 Date(s) Analyzed: 07/08/2021 07/08/2021
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	2.4	
	2	0.000	0.000	0.000	2.4	0.0
Aroclor-1260	1	0.000	0.000	0.000	2.2	
	2	0.000	0.000	0.000	2.2	4.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS

Lab Sample ID: B285201-BS1 Date(s) Analyzed: 07/07/2021 07/07/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.43	15.1
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.36	17.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

SW-846 8082A

LCS Dup

Lab Sample ID: B285201-BSD1 Date(s) Analyzed: 07/07/2021 07/07/2021
Instrument ID (1): ECD5 Instrument ID (2): ECD5
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.39	20.7
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.36	17.7

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

21F1664



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Address: 535 Stone
Phone: 802-249-4541
Project Name: 102 River St.
Project Location: Springfield, VT
Project Number: 19-134
Project Manager: Don Voisin
Con-Test Quote Name/Number:

Invoice Recipient:
Sampled By: SVE, SVE, DIV

Con-Test Work Order#

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

COMP/GRAB

Matrix Code

Conc Code

VIALS

GLASS

PLASTIC

BACTERIA

ENCORE

Format: PDF

Other: Equus BOD

CLP Like Data Plg Required

Email To: Dan Voisin

Fax To #:

7-Day

PFAS 10-Day (std)

10-Day

Due Date:

Field Filtered

Lab to Filter

1-Day

3-Day

4-Day

Field Filtered

Lab to Filter

Orthotoluidine Samples

ENCORE

Excel

PLASTIC

BACTERIA

ENCORE

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

http://www.contestlabs.com

Page 2 of 4

ANALYSIS REQUESTED

2 Preservation Code

Total Number Of:

VIALS

GLASS

PLASTIC

BACTERIA

ENCORE

Glassware in the fridge?

Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for

missing samples from prepacked

coolers

1 Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil

SL = Sludge

SOL = Solid

O = Other (please

define)

2 Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium

Thiosulfate

O = Other (please

define)

PCB ONLY

Soxhlet

Non Soxhlet

Relinquished by (signature)

Date/Time: 6/24/21 1600

Received by (signature)

Date/Time: 6/24/21 4PM

Relinquished by (signature)

Date/Time: 6/25/21 1215

Received by (signature)

Date/Time: 6/25

Relinquished by (signature)

Date/Time: 6/25

Received by (signature)

Date/Time: 6/25 1430

Relinquished by (signature)

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Date/Time: 6/25 1430

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Relinquished by (signature)

Date/Time: 6/24/21 1600

Received by (signature)

Date/Time: 6/24/21 4PM

Relinquished by (signature)

Date/Time: 6/25/21 1215

Received by (signature)

Date/Time: 6/25

Relinquished by (signature)

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Date/Time: 6/25 1430

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Relinquished by (signature)

Date/Time: 6/24/21 1600

Received by (signature)

Date/Time: 6/24/21 4PM

Relinquished by (signature)

Date/Time: 6/25/21 1215

Received by (signature)

Date/Time: 6/25

Relinquished by (signature)

Date/Time: 6/25

Received by (signature)

Date/Time: 6/25 1430

Relinquished by (signature)

Date/Time: 6/25 1430

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Relinquished by (signature)

Date/Time: 6/25 1430

Received by (signature)

Date/Time: 6/25 1430

Relinquished by (signature)

Date/Time: 6/25 1430

Received by (signature)

Date/Time: 6/25 1430

Relinquished by (signature)

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False

Statement will be brought to the attention of the Client - State True or False

Client Stone Environmental

Received By MA Date 6/25/01 Time 1430

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.8
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all Client T Analysis T Sampler Name T

pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

July 12, 2021

Dan Voisin
Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602

Project Location: 100 River St., Springfield, VT
Client Job Number:
Project Number: 19-124
Laboratory Work Order Number: 21G0063

Enclosed are results of analyses for samples received by the laboratory on July 1, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602
ATTN: Dan Voisin

REPORT DATE: 7/12/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 19-124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0063

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 100 River St., Springfield, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
100R-SB-101-2.0	21G0063-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
100R-SB-102-2.0	21G0063-02	Soil		SW-846 8270D-E	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8015C	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8015C

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl

21G0063-02RE1[100R-SB-102-2.0]

SW-846 8260C-D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Methyl Acetate

B285222-BS1, B285222-BSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

trans-1,4-Dichloro-2-butene

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285222-BLK1, B285222-BS1, B285222-BSD1, S061211-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene

B285222-BS1, B285222-BSD1, S061211-CCV1

1,2-Dichloroethane

B285222-BS1, B285222-BSD1, S061211-CCV1

Acetone

B285222-BS1, B285222-BSD1, S061211-CCV1

Bromomethane

B285222-BS1, B285222-BSD1, S061211-CCV1

Methyl Acetate

B285222-BS1, B285222-BSD1, S061211-CCV1

Methylene Chloride

B285222-BS1, B285222-BSD1, S061211-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285222-BLK1, B285222-BS1, B285222-BSD1, S061211-CCV1

SW-846 8270D-E

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**1,2-Dichlorobenzene**

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

1,3-Dichlorobenzene

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

1,4-Dichlorobenzene

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

3,3-Dichlorobenzidine

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

3-Nitroaniline

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

4-Chloroaniline

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

Aniline

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

Benzidine

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

Bis(2-chloroethyl)ether

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

Hexachlorocyclopentadiene

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

Hexachloroethane

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

N-Nitrosodimethylamine

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

Pentachlorophenol

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

Pyridine

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

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MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,2,4,5-Tetrachlorobenzene

B285210-MSD1

1,2-Diphenylhydrazine/Azobenzene

B285210-MSD1

2-Chloronaphthalene

B285210-MSD1

4-Bromophenylphenylether

B285210-MSD1

Anthracene

B285210-MSD1

Benzo(a)pyrene

B285210-MSD1

Benzo(g,h,i)perylene

B285210-MSD1

Benzoic Acid

B285210-MS1

Bis(2-chloroethoxy)methane

B285210-MSD1

Carbazole

B285210-MSD1

Dibenz(a,h)anthracene

B285210-MSD1

Indeno(1,2,3-cd)pyrene

B285210-MSD1

Naphthalene

B285210-MSD1

Nitrobenzene

B285210-MSD1

Phenanthrene

B285210-MSD1

Pyrene

B285210-MSD1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

2,4-Dimethylphenol

B285210-MSD1

4-Nitroaniline

B285210-MSD1

N-Nitrosodiphenylamine/Diphenyl:

B285210-MSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

2,4-Dimethylphenol

21G0063-02[100R-SB-102-2.0], B285210-MS1

3,3-Dichlorobenzidine

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

4-Chloroaniline

21G0063-02[100R-SB-102-2.0], B285210-MS1, B285210-MSD1

4-Nitroaniline

21G0063-02[100R-SB-102-2.0], B285210-MS1

N-Nitrosodiphenylamine/Diphenyl:

21G0063-02[100R-SB-102-2.0], B285210-MS1

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V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**Benzidine**

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285210-BLK2, B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1, S061322-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Benzidine**

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285210-BLK2, B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1, S061322-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1, S061322-CCV1

2,4-Dinitrotoluene

B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1, S061322-CCV1

2,6-Dinitrotoluene

B285210-BSD1, B285210-MSD1, S061307-CCV1

2-Methylphenol

B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1

3-Nitroaniline

B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1

4-Nitroaniline

B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1, S061322-CCV1

4-Nitrophenol

B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1, S061322-CCV1

Benzoic Acid

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285210-BLK2, B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1, S061322-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285210-BLK2

2,4-Dinitrotoluene

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285210-BLK2

4-Nitroaniline

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285210-BLK2

4-Nitrophenol

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285210-BLK2

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Benzidine**

21G0063-01[100R-SB-101-2.0], 21G0063-02[100R-SB-102-2.0], B285210-BLK2, B285210-BS1, B285210-BSD1, B285210-MS1, B285210-MSD1, S061307-CCV1, S061322-CCV1

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SW-846 8015C

Diesel Range Organics (C10-C28) is quantitated against a calibration made with a #2 fuel oil standard.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-101-2.0

Sampled: 6/29/2021 13:20

Sample ID: 21G0063-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Acrylonitrile	ND	0.0048	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Benzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Bromobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Bromochloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Bromodichloromethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Bromoform	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Bromomethane	ND	0.0080	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
2-Butanone (MEK)	ND	0.032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
tert-Butyl Alcohol (TBA)	ND	0.080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
n-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
sec-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
tert-Butylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Carbon Disulfide	ND	0.0048	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Carbon Tetrachloride	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Chlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Chlorodibromomethane	ND	0.00080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Chloroethane	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Chloroform	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Chloromethane	ND	0.0080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
2-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
4-Chlorotoluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,2-Dibromoethane (EDB)	ND	0.00080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Dibromomethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,2-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,3-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,4-Dichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
trans-1,4-Dichloro-2-butene	ND	0.0032	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,1-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,2-Dichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,1-Dichloroethylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
cis-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
trans-1,2-Dichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,3-Dichloropropane	ND	0.00080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
2,2-Dichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,1-Dichloropropene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
cis-1,3-Dichloropropene	ND	0.00080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
trans-1,3-Dichloropropene	ND	0.00080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Diethyl Ether	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-101-2.0

Sampled: 6/29/2021 13:20

Sample ID: 21G0063-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,4-Dioxane	ND	0.080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Ethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Hexachlorobutadiene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
2-Hexanone (MBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Isopropylbenzene (Cumene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Methyl Acetate	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Methyl Cyclohexane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Methylene Chloride	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Naphthalene	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
n-Propylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Styrene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.00080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Tetrachloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Tetrahydrofuran	ND	0.0080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Toluene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,2,3-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,2,4-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,3,5-Trichlorobenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,1,1-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,1,2-Trichloroethane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Trichloroethylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,2,3-Trichloropropane	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,2,4-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
1,3,5-Trimethylbenzene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Vinyl Chloride	ND	0.0080	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
m+p Xylene	ND	0.0032	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
o-Xylene	ND	0.0016	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:25	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	109	70-130							
Toluene-d8	97.5	70-130							
4-Bromofluorobenzene	101	70-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-101-2.0

Sampled: 6/29/2021 13:20

Sample ID: 21G0063-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Acenaphthylene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Acetophenone	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Aniline	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Anthracene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Benzidine	ND	0.37	mg/Kg dry	1	V-35, V-04, V-05	SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Benzo(a)anthracene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Benzo(a)pyrene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Benzo(b)fluoranthene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Benzo(g,h,i)perylene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Benzo(k)fluoranthene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Benzoic Acid	ND	0.56	mg/Kg dry	1	V-06	SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Bis(2-chloroethoxy)methane	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Bis(2-chloroethyl)ether	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Bis(2-chloroisopropyl)ether	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
4-Bromophenylphenylether	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Butylbenzylphthalate	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Carbazole	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
4-Chloroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
4-Chloro-3-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2-Chloronaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2-Chlorophenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
4-Chlorophenylphenylether	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Chrysene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Dibenz(a,h)anthracene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Dibenzofuran	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Di-n-butylphthalate	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
1,2-Dichlorobenzene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
1,3-Dichlorobenzene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
1,4-Dichlorobenzene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
3,3-Dichlorobenzidine	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2,4-Dichlorophenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Diethylphthalate	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2,4-Dimethylphenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Dimethylphthalate	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
4,6-Dinitro-2-methylphenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2,4-Dinitrophenol	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2,4-Dinitrotoluene	ND	0.19	mg/Kg dry	1	V-20	SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2,6-Dinitrotoluene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Di-n-octylphthalate	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Fluoranthene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Fluorene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-101-2.0

Sampled: 6/29/2021 13:20

Sample ID: 21G0063-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Hexachlorobutadiene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Hexachlorocyclopentadiene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Hexachloroethane	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Indeno(1,2,3-cd)pyrene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Isophorone	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
1-Methylnaphthalene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2-Methylnaphthalene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2-Methylphenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
3/4-Methylphenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Naphthalene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2-Nitroaniline	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
3-Nitroaniline	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
4-Nitroaniline	ND	0.19	mg/Kg dry	1	V-20	SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Nitrobenzene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2-Nitrophenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
4-Nitrophenol	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
N-Nitrosodimethylamine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
N-Nitrosodi-n-propylamine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Pentachloronitrobenzene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Pentachlorophenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Phenanthrene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Phenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Pyrene	ND	0.096	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Pyridine	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
1,2,4-Trichlorobenzene	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2,4,5-Trichlorophenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
2,4,6-Trichlorophenol	ND	0.19	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 13:51	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	46.9	30-130						7/7/21 13:51	
Phenol-d6	66.7	30-130						7/7/21 13:51	
Nitrobenzene-d5	52.1	30-130						7/7/21 13:51	
2-Fluorobiphenyl	50.7	30-130						7/7/21 13:51	
2,4,6-Tribromophenol	66.7	30-130						7/7/21 13:51	
p-Terphenyl-d14	66.4	30-130						7/7/21 13:51	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-101-2.0

Sampled: 6/29/2021 13:20

Sample ID: 21G0063-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:35	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:35	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:35	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:35	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:35	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:35	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:35	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:35	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:35	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.1	30-150						7/7/21 16:35	
Decachlorobiphenyl [2]	64.9	30-150						7/7/21 16:35	
Tetrachloro-m-xylene [1]	80.5	30-150						7/7/21 16:35	
Tetrachloro-m-xylene [2]	75.2	30-150						7/7/21 16:35	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-101-2.0

Sampled: 6/29/2021 13:20

Sample ID: 21G0063-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diesel Range Organics	ND	9.4	mg/Kg dry	1		SW-846 8015C	7/2/21	7/7/21 19:05	SFM
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorobiphenyl	65.9	40-140						7/7/21 19:05	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-101-2.0

Sampled: 6/29/2021 13:20

Sample ID: 21G0063-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Arsenic	ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Barium	100	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Beryllium	0.44	0.18	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Cadmium	ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Chromium	16	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Copper	27	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Lead	4.5	0.54	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Mercury	ND	0.032	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 11:13	CJV
Nickel	15	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH
Zinc	43	0.72	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:16	MJH

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-101-2.0

Sampled: 6/29/2021 13:20

Sample ID: 21G0063-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.8		% Wt	1		SM 2540G	7/2/21	7/3/21 9:41	JML

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-102-2.0

Sampled: 6/29/2021 14:05

Sample ID: 21G0063-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Acrylonitrile	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Bromochloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Bromomethane	ND	0.0074	mg/Kg dry	1	V-34	SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
tert-Butyl Alcohol (TBA)	ND	0.074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Carbon Disulfide	ND	0.0045	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Chlorodibromomethane	ND	0.00074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Chloromethane	ND	0.0074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,2-Dibromoethane (EDB)	ND	0.00074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
trans-1,4-Dichloro-2-butene	ND	0.0030	mg/Kg dry	1	V-05	SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,3-Dichloropropane	ND	0.00074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
cis-1,3-Dichloropropene	ND	0.00074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
trans-1,3-Dichloropropene	ND	0.00074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Diethyl Ether	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-102-2.0

Sampled: 6/29/2021 14:05

Sample ID: 21G0063-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,4-Dioxane	ND	0.074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Methyl Acetate	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Methyl Cyclohexane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.00074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Tetrahydrofuran	ND	0.0074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,3,5-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Vinyl Chloride	ND	0.0074	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C-D	7/2/21	7/2/21 14:50	MFF
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	110	70-130							
Toluene-d8	98.7	70-130							
4-Bromofluorobenzene	95.8	70-130							

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-102-2.0

Sampled: 6/29/2021 14:05

Sample ID: 21G0063-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Acenaphthylene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Acetophenone	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Aniline	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Anthracene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Benzidine	ND	0.39	mg/Kg dry	1	MS-09, V-04, V-05, V-35	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Benzoic Acid	ND	0.59	mg/Kg dry	1	V-06	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Bis(2-chloroethoxy)methane	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Bis(2-chloroethyl)ether	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Bis(2-chloroisopropyl)ether	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
4-Bromophenylphenylether	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Butylbenzylphthalate	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Carbazole	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
4-Chloroaniline	ND	0.39	mg/Kg dry	1	MS-09, R-06	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
4-Chloro-3-methylphenol	ND	0.39	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2-Chloronaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2-Chlorophenol	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
4-Chlorophenylphenylether	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Chrysene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Dibenzofuran	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Di-n-butylphthalate	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
1,2-Dichlorobenzene	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
1,3-Dichlorobenzene	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
1,4-Dichlorobenzene	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
3,3-Dichlorobenzidine	ND	0.10	mg/Kg dry	1	MS-09, R-06	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2,4-Dichlorophenol	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Diethylphthalate	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2,4-Dimethylphenol	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Dimethylphthalate	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
4,6-Dinitro-2-methylphenol	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2,4-Dinitrophenol	ND	0.39	mg/Kg dry	1	V-20	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2,4-Dinitrotoluene	ND	0.20	mg/Kg dry	1	V-20	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2,6-Dinitrotoluene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Di-n-octylphthalate	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Fluoranthene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-102-2.0

Sampled: 6/29/2021 14:05

Sample ID: 21G0063-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Hexachlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Hexachlorobutadiene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Hexachlorocyclopentadiene	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Hexachloroethane	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Isophorone	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
1-Methylnaphthalene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2-Methylphenol	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
3/4-Methylphenol	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Naphthalene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2-Nitroaniline	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
3-Nitroaniline	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
4-Nitroaniline	ND	0.20	mg/Kg dry	1	R-06, V-20	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Nitrobenzene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2-Nitrophenol	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
4-Nitrophenol	ND	0.39	mg/Kg dry	1	V-20	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
N-Nitrosodimethylamine	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.20	mg/Kg dry	1	R-06	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
N-Nitrosodi-n-propylamine	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Pentachloronitrobenzene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Pentachlorophenol	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Phenanthrene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Phenol	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Pyrene	ND	0.10	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Pyridine	ND	0.20	mg/Kg dry	1	MS-09	SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
1,2,4-Trichlorobenzene	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2,4,5-Trichlorophenol	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
2,4,6-Trichlorophenol	ND	0.20	mg/Kg dry	1		SW-846 8270D-E	7/2/21	7/7/21 21:45	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorophenol	33.2	30-130							
Phenol-d6	48.9	30-130							
Nitrobenzene-d5	36.3	30-130							
2-Fluorobiphenyl	35.0	30-130							
2,4,6-Tribromophenol	40.8	30-130							
p-Terphenyl-d14	40.2	30-130							

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-102-2.0

Sampled: 6/29/2021 14:05

Sample ID: 21G0063-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:52	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:52	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:52	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:52	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:52	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:52	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:52	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:52	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	7/2/21	7/7/21 16:52	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	72.8	30-150						7/7/21 16:52	
Decachlorobiphenyl [2]	64.4	30-150						7/7/21 16:52	
Tetrachloro-m-xylene [1]	82.3	30-150						7/7/21 16:52	
Tetrachloro-m-xylene [2]	73.2	30-150						7/7/21 16:52	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-102-2.0

Sampled: 6/29/2021 14:05

Sample ID: 21G0063-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diesel Range Organics	2600	240	mg/Kg dry	25		SW-846 8015C	7/8/21	7/12/21 13:44	RMW
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2-Fluorobiphenyl	*		40-140		S-01			7/12/21 13:44	

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-102-2.0

Sampled: 6/29/2021 14:05

Sample ID: 21G0063-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Arsenic	ND	3.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Barium	37	1.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Beryllium	0.65	0.19	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Cadmium	ND	0.39	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Chromium	12	0.78	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Copper	21	0.78	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Lead	20	0.58	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Mercury	0.040	0.031	mg/Kg dry	1		SW-846 7471B	7/2/21	7/7/21 11:15	CJV
Nickel	19	0.78	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Thallium	ND	1.9	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH
Zinc	61	0.78	mg/Kg dry	1		SW-846 6010D	7/2/21	7/6/21 19:22	MJH

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Project Location: 100 River St., Springfield, VT

Sample Description:

Work Order: 21G0063

Date Received: 7/1/2021

Field Sample #: 100R-SB-102-2.0

Sampled: 6/29/2021 14:05

Sample ID: 21G0063-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	7/2/21	7/3/21 9:41	JML

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Sample Extraction Data

Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21G0063-01 [100R-SB-101-2.0]	B285260	07/02/21
21G0063-02 [100R-SB-102-2.0]	B285260	07/02/21

Prep Method: SW-846 3050B Analytical Method: SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0063-01 [100R-SB-101-2.0]	B285207	1.55	50.0	07/02/21
21G0063-02 [100R-SB-102-2.0]	B285207	1.51	50.0	07/02/21

Prep Method: SW-846 7471 Analytical Method: SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0063-01 [100R-SB-101-2.0]	B285231	0.523	50.0	07/02/21
21G0063-02 [100R-SB-102-2.0]	B285231	0.573	50.0	07/02/21

Prep Method: SW-846 3546 Analytical Method: SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0063-01 [100R-SB-101-2.0]	B285211	30.0	1.00	07/02/21

Prep Method: SW-846 3546 Analytical Method: SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0063-02RE1 [100R-SB-102-2.0]	B285555	30.2	1.00	07/08/21

Prep Method: SW-846 3540C Analytical Method: SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0063-01 [100R-SB-101-2.0]	B285215	10.1	10.0	07/02/21
21G0063-02 [100R-SB-102-2.0]	B285215	10.0	10.0	07/02/21

Prep Method: SW-846 5035 Analytical Method: SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0063-01 [100R-SB-101-2.0]	B285222	7.01	10.0	07/02/21
21G0063-02 [100R-SB-102-2.0]	B285222	7.88	10.0	07/02/21

Prep Method: SW-846 3546 Analytical Method: SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0063-01 [100R-SB-101-2.0]	B285210	30.0	0.500	07/02/21
21G0063-02 [100R-SB-102-2.0]	B285210	30.0	0.500	07/02/21

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285222 - SW-846 5035
Blank (B285222-BLK1)

Prepared & Analyzed: 07/02/21

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							V-05
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285222 - SW-846 5035
Blank (B285222-BLK1)

Prepared & Analyzed: 07/02/21

Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0589		mg/Kg wet	0.0500		118	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/Kg wet	0.0500		99.5	70-130			

LCS (B285222-BS1)

Prepared & Analyzed: 07/02/21

Acetone	0.235	0.10	mg/Kg wet	0.200		117	70-160		V-20	†
Acrylonitrile	0.0219	0.0060	mg/Kg wet	0.0200		109	70-130			
tert-Amyl Methyl Ether (TAME)	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
Benzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Bromobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
Bromochloromethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Bromodichloromethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
Bromoform	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromomethane	0.0245	0.010	mg/Kg wet	0.0200		123	40-130		V-20, V-34	†
2-Butanone (MEK)	0.236	0.040	mg/Kg wet	0.200		118	70-160			†
tert-Butyl Alcohol (TBA)	0.217	0.10	mg/Kg wet	0.200		109	40-130			†
n-Butylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.0	70-130			
sec-Butylbenzene	0.0162	0.0020	mg/Kg wet	0.0200		80.8	70-130			
tert-Butylbenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
Carbon Disulfide	0.207	0.0060	mg/Kg wet	0.200		103	70-130			
Carbon Tetrachloride	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
Chlorodibromomethane	0.0239	0.0010	mg/Kg wet	0.0200		119	70-130			
Chloroethane	0.0221	0.020	mg/Kg wet	0.0200		110	70-130			
Chloroform	0.0225	0.0040	mg/Kg wet	0.0200		112	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285222 - SW-846 5035										
LCS (B285222-BS1)				Prepared & Analyzed: 07/02/21						
Chloromethane	0.0238	0.010	mg/Kg wet	0.0200		119	70-130			
2-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130			
4-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2-Dibromoethane (EDB)	0.0221	0.0010	mg/Kg wet	0.0200		110	70-130			
Dibromomethane	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
1,3-Dichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130			
1,4-Dichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130			
trans-1,4-Dichloro-2-butene	0.0158	0.0040	mg/Kg wet	0.0200		78.8	70-130			V-05
Dichlorodifluoromethane (Freon 12)	0.0216	0.020	mg/Kg wet	0.0200		108	40-160			†
1,1-Dichloroethane	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130			
1,2-Dichloroethane	0.0254	0.0020	mg/Kg wet	0.0200		127	70-130			V-20
1,1-Dichloroethylene	0.0243	0.0040	mg/Kg wet	0.0200		122	70-130			V-20
cis-1,2-Dichloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
trans-1,2-Dichloroethylene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,3-Dichloropropane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130			
2,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloropropene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
cis-1,3-Dichloropropene	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
trans-1,3-Dichloropropene	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130			
Diethyl Ether	0.0226	0.020	mg/Kg wet	0.0200		113	70-130			
Diisopropyl Ether (DIPE)	0.0223	0.0010	mg/Kg wet	0.0200		111	70-130			
1,4-Dioxane	0.209	0.10	mg/Kg wet	0.200		104	40-160			†
Ethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.3	70-130			
Hexachlorobutadiene	0.0172	0.0020	mg/Kg wet	0.0200		86.1	70-160			
2-Hexanone (MBK)	0.217	0.020	mg/Kg wet	0.200		109	70-160			†
Isopropylbenzene (Cumene)	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
p-Isopropyltoluene (p-Cymene)	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130			
Methyl Acetate	0.0311	0.0020	mg/Kg wet	0.0200		156	* 70-130			L-02, V-20
Methyl tert-Butyl Ether (MTBE)	0.0223	0.0040	mg/Kg wet	0.0200		112	70-130			
Methyl Cyclohexane	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
Methylene Chloride	0.0239	0.020	mg/Kg wet	0.0200		119	40-160			V-20 †
4-Methyl-2-pentanone (MIBK)	0.229	0.020	mg/Kg wet	0.200		114	70-160			†
Naphthalene	0.0171	0.0040	mg/Kg wet	0.0200		85.4	40-130			†
n-Propylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
Styrene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130			
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2,2-Tetrachloroethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Tetrachloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Tetrahydrofuran	0.0211	0.010	mg/Kg wet	0.0200		105	70-130			
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,3-Trichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130			
1,3,5-Trichlorobenzene	0.0170	0.0020	mg/Kg wet	0.0200		84.9	70-130			
1,1,1-Trichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,2-Trichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichlorofluoromethane (Freon 11)	0.0227	0.010	mg/Kg wet	0.0200		113	70-130			
1,2,3-Trichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285222 - SW-846 5035
LCS (B285222-BS1)

Prepared & Analyzed: 07/02/21

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0215	0.010	mg/Kg wet	0.0200		108	70-130			
1,2,4-Trimethylbenzene	0.0165	0.0020	mg/Kg wet	0.0200		82.5	70-130			
1,3,5-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Vinyl Chloride	0.0225	0.010	mg/Kg wet	0.0200		112	40-130			†
m+p Xylene	0.0379	0.0040	mg/Kg wet	0.0400		94.8	70-130			
o-Xylene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0567		mg/Kg wet	0.0500		113	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0518		mg/Kg wet	0.0500		104	70-130			

LCS Dup (B285222-BS1)

Prepared & Analyzed: 07/02/21

Acetone	0.225	0.10	mg/Kg wet	0.200		113	70-160	4.09	25	V-20	†
Acrylonitrile	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130	7.20	25		
tert-Amyl Methyl Ether (TAME)	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130	5.34	25		
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	2.81	25		
Bromobenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130	4.35	25		
Bromochloromethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	2.82	25		
Bromodichloromethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	6.36	25		
Bromoform	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	1.33	25		
Bromomethane	0.0233	0.010	mg/Kg wet	0.0200		116	40-130	5.26	25	V-20, V-34	†
2-Butanone (MEK)	0.223	0.040	mg/Kg wet	0.200		112	70-160	5.37	25		†
tert-Butyl Alcohol (TBA)	0.213	0.10	mg/Kg wet	0.200		106	40-130	2.06	25		†
n-Butylbenzene	0.0157	0.0020	mg/Kg wet	0.0200		78.4	70-130	3.35	25		
sec-Butylbenzene	0.0151	0.0020	mg/Kg wet	0.0200		75.6	70-130	6.59	25		
tert-Butylbenzene	0.0157	0.0020	mg/Kg wet	0.0200		78.5	70-160	6.39	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130	3.12	25		
Carbon Disulfide	0.193	0.0060	mg/Kg wet	0.200		96.3	70-130	7.03	25		
Carbon Tetrachloride	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	7.53	25		
Chlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	5.62	25		
Chlorodibromomethane	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	7.12	25		
Chloroethane	0.0212	0.020	mg/Kg wet	0.0200		106	70-130	3.89	25		
Chloroform	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	7.63	25		
Chloromethane	0.0232	0.010	mg/Kg wet	0.0200		116	70-130	2.34	25		
2-Chlorotoluene	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130	5.95	25		
4-Chlorotoluene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130	5.98	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	4.66	25		
1,2-Dibromoethane (EDB)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130	3.31	25		
Dibromomethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	1.66	25		
1,2-Dichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130	6.13	25		
1,3-Dichlorobenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.7	70-130	3.59	25		
1,4-Dichlorobenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130	2.67	25		
trans-1,4-Dichloro-2-butene	0.0145	0.0040	mg/Kg wet	0.0200		72.6	70-130	8.24	25	V-05	
Dichlorodifluoromethane (Freon 12)	0.0199	0.020	mg/Kg wet	0.0200		99.6	40-160	7.96	25		†
1,1-Dichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	4.24	25		
1,2-Dichloroethane	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130	6.18	25	V-20	
1,1-Dichloroethylene	0.0222	0.0040	mg/Kg wet	0.0200		111	70-130	9.10	25	V-20	
cis-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	6.13	25		
trans-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	8.12	25		
1,2-Dichloropropane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	4.08	25		
1,3-Dichloropropane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	0.283	25		
2,2-Dichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	8.49	25		
1,1-Dichloropropene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	4.47	25		

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285222 - SW-846 5035										
LCS Dup (B285222-BSD1)				Prepared & Analyzed: 07/02/21						
cis-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.5	70-130	4.88	25	
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	2.81	25	
Diethyl Ether	0.0219	0.020	mg/Kg wet	0.0200		109	70-130	3.01	25	
Diisopropyl Ether (DIPE)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130	3.83	25	
1,4-Dioxane	0.203	0.10	mg/Kg wet	0.200		101	40-160	3.04	50	† ‡
Ethylbenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130	6.18	25	
Hexachlorobutadiene	0.0156	0.0020	mg/Kg wet	0.0200		78.1	70-160	9.67	25	
2-Hexanone (MBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160	4.21	25	†
Isopropylbenzene (Cumene)	0.0166	0.0020	mg/Kg wet	0.0200		83.2	70-130	6.88	25	
p-Isopropyltoluene (p-Cymene)	0.0157	0.0020	mg/Kg wet	0.0200		78.7	70-130	6.61	25	
Methyl Acetate	0.0301	0.0020	mg/Kg wet	0.0200		150	* 70-130	3.31	25	L-02, V-20
Methyl tert-Butyl Ether (MTBE)	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130	4.80	25	
Methyl Cyclohexane	0.0166	0.0020	mg/Kg wet	0.0200		83.1	70-130	10.6	25	
Methylene Chloride	0.0236	0.020	mg/Kg wet	0.0200		118	40-160	1.21	25	V-20 †
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-160	4.90	25	†
Naphthalene	0.0158	0.0040	mg/Kg wet	0.0200		79.2	40-130	7.57	25	†
n-Propylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	4.33	25	
Styrene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130	4.90	25	
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	5.00	25	
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.3	70-130	6.34	25	
Tetrachloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	6.55	25	
Tetrahydrofuran	0.0199	0.010	mg/Kg wet	0.0200		99.6	70-130	5.53	25	
Toluene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130	7.24	25	
1,2,3-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130	7.24	25	
1,2,4-Trichlorobenzene	0.0165	0.0020	mg/Kg wet	0.0200		82.3	70-130	5.63	25	
1,3,5-Trichlorobenzene	0.0158	0.0020	mg/Kg wet	0.0200		79.2	70-130	6.94	25	
1,1,1-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	7.73	25	
1,1,2-Trichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	3.45	25	
Trichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	3.56	25	
Trichlorofluoromethane (Freon 11)	0.0211	0.010	mg/Kg wet	0.0200		106	70-130	7.10	25	
1,2,3-Trichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	2.88	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0194	0.010	mg/Kg wet	0.0200		97.0	70-130	10.5	25	
1,2,4-Trimethylbenzene	0.0159	0.0020	mg/Kg wet	0.0200		79.7	70-130	3.47	25	
1,3,5-Trimethylbenzene	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130	6.79	25	
Vinyl Chloride	0.0207	0.010	mg/Kg wet	0.0200		104	40-130	8.33	25	†
m+p Xylene	0.0364	0.0040	mg/Kg wet	0.0400		91.1	70-130	3.94	25	
o-Xylene	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130	4.97	25	
Surrogate: 1,2-Dichloroethane-d4	0.0573		mg/Kg wet	0.0500		115	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0522		mg/Kg wet	0.0500		104	70-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285210 - SW-846 3546
Blank (B285210-BLK2)

Prepared: 07/02/21 Analyzed: 07/07/21

Acenaphthene	ND	0.085	mg/Kg wet							
Acenaphthylene	ND	0.085	mg/Kg wet							
Acetophenone	ND	0.17	mg/Kg wet							
Aniline	ND	0.17	mg/Kg wet							
Anthracene	ND	0.085	mg/Kg wet							
Benzidine	ND	0.33	mg/Kg wet							V-04, V-05, V-35
Benzo(a)anthracene	ND	0.085	mg/Kg wet							
Benzo(a)pyrene	ND	0.085	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.085	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.085	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.085	mg/Kg wet							
Benzoic Acid	ND	0.50	mg/Kg wet							V-06
Bis(2-chloroethoxy)methane	ND	0.17	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.17	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.17	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.17	mg/Kg wet							
4-Bromophenylphenylether	ND	0.17	mg/Kg wet							
Butylbenzylphthalate	ND	0.17	mg/Kg wet							
Carbazole	ND	0.085	mg/Kg wet							
4-Chloroaniline	ND	0.33	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.33	mg/Kg wet							
2-Chloronaphthalene	ND	0.17	mg/Kg wet							
2-Chlorophenol	ND	0.17	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.17	mg/Kg wet							
Chrysene	ND	0.085	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.085	mg/Kg wet							
Dibenzofuran	ND	0.17	mg/Kg wet							
Di-n-butylphthalate	ND	0.17	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.17	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.17	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.17	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.085	mg/Kg wet							
2,4-Dichlorophenol	ND	0.17	mg/Kg wet							
Diethylphthalate	ND	0.17	mg/Kg wet							
2,4-Dimethylphenol	ND	0.17	mg/Kg wet							
Dimethylphthalate	ND	0.17	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.17	mg/Kg wet							
2,4-Dinitrophenol	ND	0.33	mg/Kg wet							V-20
2,4-Dinitrotoluene	ND	0.17	mg/Kg wet							V-20
2,6-Dinitrotoluene	ND	0.17	mg/Kg wet							
Di-n-octylphthalate	ND	0.17	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.085	mg/Kg wet							
Fluorene	ND	0.085	mg/Kg wet							
Hexachlorobenzene	ND	0.17	mg/Kg wet							
Hexachlorobutadiene	ND	0.17	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.17	mg/Kg wet							
Hexachloroethane	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.085	mg/Kg wet							
Isophorone	ND	0.17	mg/Kg wet							
1-Methylnaphthalene	ND	0.085	mg/Kg wet							
2-Methylnaphthalene	ND	0.085	mg/Kg wet							

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285210 - SW-846 3546
Blank (B285210-BLK2)

Prepared: 07/02/21 Analyzed: 07/07/21

2-Methylphenol	ND	0.17	mg/Kg wet							
3/4-Methylphenol	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.085	mg/Kg wet							
2-Nitroaniline	ND	0.17	mg/Kg wet							
3-Nitroaniline	ND	0.17	mg/Kg wet							
4-Nitroaniline	ND	0.17	mg/Kg wet							V-20
Nitrobenzene	ND	0.17	mg/Kg wet							
2-Nitrophenol	ND	0.17	mg/Kg wet							
4-Nitrophenol	ND	0.33	mg/Kg wet							V-20
N-Nitrosodimethylamine	ND	0.17	mg/Kg wet							
N-Nitrosodiphenylamine/Diphenylamine	ND	0.17	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.17	mg/Kg wet							
Pentachloronitrobenzene	ND	0.17	mg/Kg wet							
Pentachlorophenol	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.085	mg/Kg wet							
Phenol	ND	0.17	mg/Kg wet							
Pyrene	ND	0.085	mg/Kg wet							
Pyridine	ND	0.17	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.17	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.17	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.17	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.17	mg/Kg wet							
Surrogate: 2-Fluorophenol	2.90		mg/Kg wet	6.67		43.6	30-130			
Surrogate: Phenol-d6	4.23		mg/Kg wet	6.67		63.4	30-130			
Surrogate: Nitrobenzene-d5	1.68		mg/Kg wet	3.33		50.5	30-130			
Surrogate: 2-Fluorobiphenyl	1.67		mg/Kg wet	3.33		50.1	30-130			
Surrogate: 2,4,6-Tribromophenol	4.36		mg/Kg wet	6.67		65.4	30-130			
Surrogate: p-Terphenyl-d14	2.30		mg/Kg wet	3.33		69.1	30-130			

LCS (B285210-BS1)

Prepared: 07/02/21 Analyzed: 07/06/21

Acenaphthene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Acenaphthylene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Acetophenone	1.11	0.34	mg/Kg wet	1.67		66.7	40-140			
Aniline	1.06	0.34	mg/Kg wet	1.67		63.4	10-140			†
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Benztidine	1.94	0.66	mg/Kg wet	1.67		117	40-140			V-04, V-05, V-35
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Benzo(a)pyrene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140			
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Benzo(k)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140			
Benzoic Acid	0.985	1.0	mg/Kg wet	1.67		59.1	30-130			V-06
Bis(2-chloroethoxy)methane	1.04	0.34	mg/Kg wet	1.67		62.5	40-140			
Bis(2-chloroethyl)ether	0.987	0.34	mg/Kg wet	1.67		59.2	40-140			
Bis(2-chloroisopropyl)ether	1.16	0.34	mg/Kg wet	1.67		69.7	40-140			
Bis(2-Ethylhexyl)phthalate	1.20	0.34	mg/Kg wet	1.67		72.1	40-140			
4-Bromophenylphenylether	1.01	0.34	mg/Kg wet	1.67		60.4	40-140			
Butylbenzylphthalate	1.08	0.34	mg/Kg wet	1.67		64.9	40-140			
Carbazole	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
4-Chloroaniline	1.06	0.66	mg/Kg wet	1.67		63.9	10-140			†
4-Chloro-3-methylphenol	1.26	0.66	mg/Kg wet	1.67		75.6	30-130			
2-Chloronaphthalene	0.938	0.34	mg/Kg wet	1.67		56.3	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285210 - SW-846 3546										
LCS (B285210-BS1)				Prepared: 07/02/21 Analyzed: 07/06/21						
2-Chlorophenol	1.07	0.34	mg/Kg wet	1.67		64.5	30-130			
4-Chlorophenylphenylether	1.16	0.34	mg/Kg wet	1.67		69.4	40-140			
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140			
Dibenzofuran	1.14	0.34	mg/Kg wet	1.67		68.3	40-140			
Di-n-butylphthalate	1.15	0.34	mg/Kg wet	1.67		69.1	40-140			
1,2-Dichlorobenzene	0.977	0.34	mg/Kg wet	1.67		58.6	40-140			
1,3-Dichlorobenzene	0.928	0.34	mg/Kg wet	1.67		55.7	40-140			
1,4-Dichlorobenzene	0.953	0.34	mg/Kg wet	1.67		57.2	40-140			
3,3-Dichlorobenzidine	1.19	0.17	mg/Kg wet	1.67		71.6	20-140			†
2,4-Dichlorophenol	1.12	0.34	mg/Kg wet	1.67		67.2	30-130			
Diethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.2	40-140			
2,4-Dimethylphenol	1.02	0.34	mg/Kg wet	1.67		61.4	30-130			
Dimethylphthalate	1.19	0.34	mg/Kg wet	1.67		71.3	40-140			
4,6-Dinitro-2-methylphenol	1.37	0.34	mg/Kg wet	1.67		82.2	30-130			
2,4-Dinitrophenol	1.52	0.66	mg/Kg wet	1.67		91.2	30-130			V-06
2,4-Dinitrotoluene	1.33	0.34	mg/Kg wet	1.67		79.8	40-140			V-06
2,6-Dinitrotoluene	1.37	0.34	mg/Kg wet	1.67		82.4	40-140			
Di-n-octylphthalate	1.17	0.34	mg/Kg wet	1.67		70.0	40-140			
1,2-Diphenylhydrazine/Azobenzene	0.972	0.34	mg/Kg wet	1.67		58.3	40-140			
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140			
Hexachlorobenzene	1.12	0.34	mg/Kg wet	1.67		67.4	40-140			
Hexachlorobutadiene	1.02	0.34	mg/Kg wet	1.67		61.5	40-140			
Hexachlorocyclopentadiene	0.890	0.34	mg/Kg wet	1.67		53.4	40-140			
Hexachloroethane	0.971	0.34	mg/Kg wet	1.67		58.3	40-140			
Indeno(1,2,3-cd)pyrene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140			
Isophorone	1.18	0.34	mg/Kg wet	1.67		70.5	40-140			
1-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140			
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140			
2-Methylphenol	1.20	0.34	mg/Kg wet	1.67		72.3	30-130			V-06
3/4-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.1	30-130			
Naphthalene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140			
2-Nitroaniline	1.48	0.34	mg/Kg wet	1.67		89.0	40-140			
3-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		78.9	30-140			V-06 †
4-Nitroaniline	1.37	0.34	mg/Kg wet	1.67		82.5	40-140			V-06
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.5	40-140			
2-Nitrophenol	1.10	0.34	mg/Kg wet	1.67		65.9	30-130			
4-Nitrophenol	1.43	0.66	mg/Kg wet	1.67		86.0	30-130			V-06
N-Nitrosodimethylamine	1.01	0.34	mg/Kg wet	1.67		60.8	40-140			
N-Nitrosodiphenylamine/Diphenylamine	1.10	0.34	mg/Kg wet	1.67		66.1	40-140			
N-Nitrosodi-n-propylamine	1.10	0.34	mg/Kg wet	1.67		65.9	40-140			
Pentachloronitrobenzene	1.25	0.34	mg/Kg wet	1.67		75.3	40-140			
Pentachlorophenol	1.09	0.34	mg/Kg wet	1.67		65.7	30-130			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Phenol	1.06	0.34	mg/Kg wet	1.67		63.8	30-130			
Pyrene	0.920	0.17	mg/Kg wet	1.67		55.2	40-140			
Pyridine	0.726	0.34	mg/Kg wet	1.67		43.5	30-140			†
1,2,4,5-Tetrachlorobenzene	0.947	0.34	mg/Kg wet	1.67		56.8	40-140			
1,2,4-Trichlorobenzene	1.02	0.34	mg/Kg wet	1.67		61.1	40-140			
2,4,5-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.3	30-130			
2,4,6-Trichlorophenol	1.11	0.34	mg/Kg wet	1.67		66.4	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285210 - SW-846 3546										
LCS (B285210-BS1)										
					Prepared: 07/02/21 Analyzed: 07/06/21					
Surrogate: 2-Fluorophenol	3.66		mg/Kg wet	6.67		54.9	30-130			
Surrogate: Phenol-d6	5.12		mg/Kg wet	6.67		76.8	30-130			
Surrogate: Nitrobenzene-d5	2.13		mg/Kg wet	3.33		63.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.03		mg/Kg wet	3.33		61.0	30-130			
Surrogate: 2,4,6-Tribromophenol	5.98		mg/Kg wet	6.67		89.7	30-130			
Surrogate: p-Terphenyl-d14	2.49		mg/Kg wet	3.33		74.6	30-130			
LCS Dup (B285210-BSD1)										
					Prepared: 07/02/21 Analyzed: 07/06/21					
Acenaphthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	3.03	30	
Acenaphthylene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140	3.04	30	
Acetophenone	1.08	0.34	mg/Kg wet	1.67		64.9	40-140	2.80	30	
Aniline	1.08	0.34	mg/Kg wet	1.67		64.5	10-140	1.75	50	† ‡
Anthracene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	1.31	30	
Benzidine	2.16	0.66	mg/Kg wet	1.67		130	40-140	10.8	30	V-04, V-05, V-35
Benzo(a)anthracene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	2.03	30	
Benzo(a)pyrene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	3.46	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	1.74	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140	1.40	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	3.29	30	
Benzoic Acid	0.942	1.0	mg/Kg wet	1.67		56.5	30-130	4.43	50	V-06 ‡
Bis(2-chloroethoxy)methane	1.07	0.34	mg/Kg wet	1.67		64.1	40-140	2.50	30	
Bis(2-chloroethyl)ether	0.964	0.34	mg/Kg wet	1.67		57.8	40-140	2.43	30	
Bis(2-chloroisopropyl)ether	1.13	0.34	mg/Kg wet	1.67		68.0	40-140	2.47	30	
Bis(2-Ethylhexyl)phthalate	1.22	0.34	mg/Kg wet	1.67		73.3	40-140	1.57	30	
4-Bromophenylphenylether	1.03	0.34	mg/Kg wet	1.67		61.8	40-140	2.26	30	
Butylbenzylphthalate	1.09	0.34	mg/Kg wet	1.67		65.6	40-140	1.20	30	
Carbazole	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	6.95	30	
4-Chloroaniline	1.06	0.66	mg/Kg wet	1.67		63.5	10-140	0.565	30	†
4-Chloro-3-methylphenol	1.22	0.66	mg/Kg wet	1.67		73.5	30-130	2.79	30	
2-Chloronaphthalene	0.961	0.34	mg/Kg wet	1.67		57.7	40-140	2.39	30	
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.0	30-130	5.58	30	
4-Chlorophenylphenylether	1.17	0.34	mg/Kg wet	1.67		70.2	40-140	1.15	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	4.22	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	3.96	30	
Dibenzofuran	1.13	0.34	mg/Kg wet	1.67		68.0	40-140	0.411	30	
Di-n-butylphthalate	1.21	0.34	mg/Kg wet	1.67		72.7	40-140	5.11	30	
1,2-Dichlorobenzene	0.932	0.34	mg/Kg wet	1.67		55.9	40-140	4.68	30	
1,3-Dichlorobenzene	0.894	0.34	mg/Kg wet	1.67		53.7	40-140	3.73	30	
1,4-Dichlorobenzene	0.912	0.34	mg/Kg wet	1.67		54.7	40-140	4.36	30	
3,3-Dichlorobenzidine	1.28	0.17	mg/Kg wet	1.67		76.9	20-140	7.13	50	† ‡
2,4-Dichlorophenol	1.11	0.34	mg/Kg wet	1.67		66.8	30-130	0.597	30	
Diethylphthalate	1.27	0.34	mg/Kg wet	1.67		75.9	40-140	2.29	30	
2,4-Dimethylphenol	1.01	0.34	mg/Kg wet	1.67		60.4	30-130	1.74	30	
Dimethylphthalate	1.19	0.34	mg/Kg wet	1.67		71.2	40-140	0.168	30	
4,6-Dinitro-2-methylphenol	1.43	0.34	mg/Kg wet	1.67		85.8	30-130	4.24	30	
2,4-Dinitrophenol	1.64	0.66	mg/Kg wet	1.67		98.1	30-130	7.31	30	V-06
2,4-Dinitrotoluene	1.36	0.34	mg/Kg wet	1.67		81.8	40-140	2.47	30	V-06
2,6-Dinitrotoluene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	1.11	30	V-06
Di-n-octylphthalate	1.17	0.34	mg/Kg wet	1.67		70.1	40-140	0.143	30	
1,2-Diphenylhydrazine/Azobenzene	0.998	0.34	mg/Kg wet	1.67		59.9	40-140	2.67	30	
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	8.09	30	
Fluorene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140	2.63	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285210 - SW-846 3546

LCS Dup (B285210-BSD1)

Prepared: 07/02/21 Analyzed: 07/06/21

Hexachlorobenzene	1.10	0.34	mg/Kg wet	1.67		66.2	40-140	1.77	30	
Hexachlorobutadiene	1.08	0.34	mg/Kg wet	1.67		65.0	40-140	5.53	30	
Hexachlorocyclopentadiene	0.935	0.34	mg/Kg wet	1.67		56.1	40-140	5.00	30	
Hexachloroethane	0.961	0.34	mg/Kg wet	1.67		57.6	40-140	1.07	30	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	1.16	30	
Isophorone	1.17	0.34	mg/Kg wet	1.67		70.0	40-140	0.740	30	
1-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	1.87	30	
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	2.49	30	
2-Methylphenol	1.08	0.34	mg/Kg wet	1.67		65.0	30-130	10.7	30	V-06
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2	30-130	4.20	30	
Naphthalene	0.996	0.17	mg/Kg wet	1.67		59.8	40-140	0.167	30	
2-Nitroaniline	1.47	0.34	mg/Kg wet	1.67		88.4	40-140	0.676	30	
3-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		80.8	30-140	2.33	30	V-06 †
4-Nitroaniline	1.46	0.34	mg/Kg wet	1.67		87.7	40-140	6.14	30	V-06
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.7	40-140	0.292	30	
2-Nitrophenol	1.10	0.34	mg/Kg wet	1.67		66.2	30-130	0.363	30	
4-Nitrophenol	1.54	0.66	mg/Kg wet	1.67		92.4	30-130	7.09	50	V-06 ‡
N-Nitrosodimethylamine	0.973	0.34	mg/Kg wet	1.67		58.4	40-140	3.99	30	
N-Nitrosodiphenylamine/Diphenylamine	1.10	0.34	mg/Kg wet	1.67		66.2	40-140	0.242	30	
N-Nitrosodi-n-propylamine	1.08	0.34	mg/Kg wet	1.67		64.6	40-140	1.90	30	
Pentachloronitrobenzene	1.35	0.34	mg/Kg wet	1.67		80.8	40-140	7.12	30	
Pentachlorophenol	1.13	0.34	mg/Kg wet	1.67		67.9	30-130	3.35	30	
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	3.27	30	
Phenol	1.01	0.34	mg/Kg wet	1.67		60.7	30-130	4.91	30	
Pyrene	0.901	0.17	mg/Kg wet	1.67		54.0	40-140	2.09	30	
Pyridine	0.692	0.34	mg/Kg wet	1.67		41.5	30-140	4.70	30	†
1,2,4,5-Tetrachlorobenzene	0.973	0.34	mg/Kg wet	1.67		58.4	40-140	2.67	30	
1,2,4-Trichlorobenzene	1.03	0.34	mg/Kg wet	1.67		61.7	40-140	0.847	30	
2,4,5-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.6	30-130	3.29	30	
2,4,6-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.3	30-130	0.241	30	
Surrogate: 2-Fluorophenol	3.56		mg/Kg wet	6.67		53.4	30-130			
Surrogate: Phenol-d6	4.80		mg/Kg wet	6.67		72.1	30-130			
Surrogate: Nitrobenzene-d5	2.16		mg/Kg wet	3.33		64.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.11		mg/Kg wet	3.33		63.4	30-130			
Surrogate: 2,4,6-Tribromophenol	6.07		mg/Kg wet	6.67		91.1	30-130			
Surrogate: p-Terphenyl-d14	2.48		mg/Kg wet	3.33		74.4	30-130			

Matrix Spike (B285210-MS1)

Source: 21G0063-02

Prepared: 07/02/21 Analyzed: 07/06/21

Acenaphthene	0.992	0.20	mg/Kg dry	1.95	ND	50.7	40-140			
Acenaphthylene	0.975	0.20	mg/Kg dry	1.95	ND	49.9	40-140			
Acetophenone	0.943	0.40	mg/Kg dry	1.95	ND	48.3	40-140			
Aniline	0.556	0.40	mg/Kg dry	1.95	ND	28.5	* 40-140			MS-09
Anthracene	0.981	0.20	mg/Kg dry	1.95	ND	50.2	40-140			
Benzidine	ND	0.77	mg/Kg dry	1.95	ND	*	40-140			MS-09, V-04, V-05, V-35
Benzo(a)anthracene	1.02	0.20	mg/Kg dry	1.95	ND	52.0	40-140			
Benzo(a)pyrene	0.950	0.20	mg/Kg dry	1.95	ND	48.6	40-140			
Benzo(b)fluoranthene	1.06	0.20	mg/Kg dry	1.95	ND	54.2	40-140			
Benzo(g,h,i)perylene	0.857	0.20	mg/Kg dry	1.95	ND	43.9	40-140			
Benzo(k)fluoranthene	1.02	0.20	mg/Kg dry	1.95	ND	52.4	40-140			
Benzoic Acid	0.752	1.2	mg/Kg dry	1.95	ND	38.5	* 40-140			MS-22, V-06
Bis(2-chloroethoxy)methane	0.853	0.40	mg/Kg dry	1.95	ND	43.7	40-140			
Bis(2-chloroethyl)ether	0.769	0.40	mg/Kg dry	1.95	ND	39.4	* 40-140			MS-09

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285210 - SW-846 3546										
Matrix Spike (B285210-MS1)	Source: 21G0063-02			Prepared: 07/02/21 Analyzed: 07/06/21						
Bis(2-chloroisopropyl)ether	0.951	0.40	mg/Kg dry	1.95	ND	48.7	40-140			
Bis(2-Ethylhexyl)phthalate	1.26	0.40	mg/Kg dry	1.95	ND	64.6	40-140			
4-Bromophenylphenylether	0.971	0.40	mg/Kg dry	1.95	ND	49.7	40-140			
Butylbenzylphthalate	1.07	0.40	mg/Kg dry	1.95	ND	54.9	40-140			
Carbazole	0.988	0.20	mg/Kg dry	1.95	ND	50.5	40-140			
4-Chloroaniline	0.699	0.77	mg/Kg dry	1.95	ND	35.8	* 40-140			MS-09, R-06
4-Chloro-3-methylphenol	1.19	0.77	mg/Kg dry	1.95	ND	60.9	30-130			
2-Chloronaphthalene	0.842	0.40	mg/Kg dry	1.95	ND	43.1	40-140			
2-Chlorophenol	0.883	0.40	mg/Kg dry	1.95	ND	45.2	30-130			
4-Chlorophenylphenylether	1.12	0.40	mg/Kg dry	1.95	ND	57.2	40-140			
Chrysene	1.01	0.20	mg/Kg dry	1.95	ND	51.7	40-140			
Dibenz(a,h)anthracene	0.908	0.20	mg/Kg dry	1.95	ND	46.4	40-140			
Dibenzofuran	1.07	0.40	mg/Kg dry	1.95	ND	54.7	40-140			
Di-n-butylphthalate	1.10	0.40	mg/Kg dry	1.95	ND	56.1	40-140			
1,2-Dichlorobenzene	0.737	0.40	mg/Kg dry	1.95	ND	37.7	* 40-140			MS-09
1,3-Dichlorobenzene	0.662	0.40	mg/Kg dry	1.95	ND	33.9	* 40-140			MS-09
1,4-Dichlorobenzene	0.666	0.40	mg/Kg dry	1.95	ND	34.1	* 40-140			MS-09
3,3-Dichlorobenzidine	0.131	0.20	mg/Kg dry	1.95	ND	6.70	* 40-140			MS-09, R-06
2,4-Dichlorophenol	1.00	0.40	mg/Kg dry	1.95	ND	51.4	30-130			
Diethylphthalate	1.17	0.40	mg/Kg dry	1.95	ND	59.9	40-140			
2,4-Dimethylphenol	0.597	0.40	mg/Kg dry	1.95	ND	30.6	30-130			R-06
Dimethylphthalate	1.03	0.40	mg/Kg dry	1.95	ND	52.9	40-140			
4,6-Dinitro-2-methylphenol	0.961	0.40	mg/Kg dry	1.95	ND	49.2	30-130			
2,4-Dinitrophenol	0.957	0.77	mg/Kg dry	1.95	ND	49.0	30-130			V-06
2,4-Dinitrotoluene	1.19	0.40	mg/Kg dry	1.95	ND	60.8	40-140			V-06
2,6-Dinitrotoluene	1.22	0.40	mg/Kg dry	1.95	ND	62.4	40-140			
Di-n-octylphthalate	1.48	0.40	mg/Kg dry	1.95	ND	76.0	40-140			
1,2-Diphenylhydrazine/Azobenzene	0.900	0.40	mg/Kg dry	1.95	ND	46.1	40-140			
Fluoranthene	1.09	0.20	mg/Kg dry	1.95	ND	55.9	40-140			
Fluorene	1.10	0.20	mg/Kg dry	1.95	ND	56.5	40-140			
Hexachlorobenzene	1.08	0.40	mg/Kg dry	1.95	ND	55.1	40-140			
Hexachlorobutadiene	0.839	0.40	mg/Kg dry	1.95	ND	42.9	40-140			
Hexachlorocyclopentadiene	0.503	0.40	mg/Kg dry	1.95	ND	25.7	* 30-130			MS-09
Hexachloroethane	0.726	0.40	mg/Kg dry	1.95	ND	37.1	* 40-140			MS-09
Indeno(1,2,3-cd)pyrene	0.939	0.20	mg/Kg dry	1.95	ND	48.0	40-140			
Isophorone	0.974	0.40	mg/Kg dry	1.95	ND	49.8	40-140			
1-Methylnaphthalene	0.983	0.20	mg/Kg dry	1.95	ND	50.3	40-140			
2-Methylnaphthalene	1.09	0.20	mg/Kg dry	1.95	ND	55.9	40-140			
2-Methylphenol	0.971	0.40	mg/Kg dry	1.95	ND	49.7	30-130			V-06
3/4-Methylphenol	1.04	0.40	mg/Kg dry	1.95	ND	53.3	30-130			
Naphthalene	0.819	0.20	mg/Kg dry	1.95	ND	41.9	40-140			
2-Nitroaniline	1.36	0.40	mg/Kg dry	1.95	ND	69.5	40-140			
3-Nitroaniline	0.781	0.40	mg/Kg dry	1.95	ND	40.0	40-140			MS-09, V-06
4-Nitroaniline	0.940	0.40	mg/Kg dry	1.95	ND	48.1	40-140			R-06, V-06
Nitrobenzene	0.785	0.40	mg/Kg dry	1.95	ND	40.2	40-140			
2-Nitrophenol	0.855	0.40	mg/Kg dry	1.95	ND	43.8	30-130			
4-Nitrophenol	1.35	0.77	mg/Kg dry	1.95	ND	69.0	30-130			V-06
N-Nitrosodimethylamine	0.619	0.40	mg/Kg dry	1.95	ND	31.7	* 40-140			MS-09
N-Nitrosodiphenylamine/Diphenylamine	0.901	0.40	mg/Kg dry	1.95	ND	46.1	40-140			R-06
N-Nitrosodi-n-propylamine	0.915	0.40	mg/Kg dry	1.95	ND	46.8	40-140			
Pentachloronitrobenzene	1.16	0.40	mg/Kg dry	1.95	ND	59.4	40-140			
Pentachlorophenol	0.448	0.40	mg/Kg dry	1.95	ND	22.9	* 30-130			MS-09

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285210 - SW-846 3546										
Matrix Spike (B285210-MS1)	Source: 21G0063-02			Prepared: 07/02/21 Analyzed: 07/06/21						
Phenanthrene	0.994	0.20	mg/Kg dry	1.95	ND	50.9	40-140			
Phenol	0.919	0.40	mg/Kg dry	1.95	ND	47.0	30-130			
Pyrene	0.938	0.20	mg/Kg dry	1.95	ND	48.0	40-140			
Pyridine	0.393	0.40	mg/Kg dry	1.95	ND	20.1	* 40-140			MS-09
1,2,4,5-Tetrachlorobenzene	0.841	0.40	mg/Kg dry	1.95	ND	43.0	40-140			
1,2,4-Trichlorobenzene	0.847	0.40	mg/Kg dry	1.95	ND	43.4	40-140			
2,4,5-Trichlorophenol	1.10	0.40	mg/Kg dry	1.95	ND	56.2	30-130			
2,4,6-Trichlorophenol	0.939	0.40	mg/Kg dry	1.95	ND	48.0	30-130			
Surrogate: 2-Fluorophenol	2.73		mg/Kg dry	7.82		35.0	30-130			
Surrogate: Phenol-d6	4.40		mg/Kg dry	7.82		56.3	30-130			
Surrogate: Nitrobenzene-d5	1.59		mg/Kg dry	3.91		40.7	30-130			
Surrogate: 2-Fluorobiphenyl	1.83		mg/Kg dry	3.91		46.7	30-130			
Surrogate: 2,4,6-Tribromophenol	5.16		mg/Kg dry	7.82		66.0	30-130			
Surrogate: p-Terphenyl-d14	2.62		mg/Kg dry	3.91		66.9	30-130			
Matrix Spike Dup (B285210-MSD1)	Source: 21G0063-02			Prepared: 07/02/21 Analyzed: 07/06/21						
Acenaphthene	0.792	0.20	mg/Kg dry	1.95	ND	40.5	40-140	22.4	30	
Acenaphthylene	0.793	0.20	mg/Kg dry	1.95	ND	40.6	40-140	20.6	30	
Acetophenone	0.858	0.40	mg/Kg dry	1.95	ND	43.9	40-140	9.51	30	
Aniline	0.423	0.40	mg/Kg dry	1.95	ND	21.6	* 40-140	27.2	30	MS-09
Anthracene	0.762	0.20	mg/Kg dry	1.95	ND	39.0	* 40-140	25.2	30	MS-22
Benzidine	ND	0.77	mg/Kg dry	1.95	ND	*	40-140		30	MS-09, V-04, V-05, V-35
Benzo(a)anthracene	0.810	0.20	mg/Kg dry	1.95	ND	41.5	40-140	22.6	30	
Benzo(a)pyrene	0.722	0.20	mg/Kg dry	1.95	ND	36.9	* 40-140	27.3	30	MS-22
Benzo(b)fluoranthene	0.809	0.20	mg/Kg dry	1.95	ND	41.4	40-140	26.7	30	
Benzo(g,h,i)perylene	0.658	0.20	mg/Kg dry	1.95	ND	33.7	* 40-140	26.3	30	MS-22
Benzo(k)fluoranthene	0.826	0.20	mg/Kg dry	1.95	ND	42.3	40-140	21.4	30	
Benzoic Acid	0.907	1.2	mg/Kg dry	1.95	ND	46.4	40-140	18.8	30	V-06
Bis(2-chloroethoxy)methane	0.762	0.40	mg/Kg dry	1.95	ND	39.0	* 40-140	11.3	30	MS-22
Bis(2-chloroethyl)ether	0.697	0.40	mg/Kg dry	1.95	ND	35.7	* 40-140	9.86	30	MS-09
Bis(2-chloroisopropyl)ether	0.892	0.40	mg/Kg dry	1.95	ND	45.6	40-140	6.41	30	
Bis(2-Ethylhexyl)phthalate	0.952	0.40	mg/Kg dry	1.95	ND	48.7	40-140	28.1	30	
4-Bromophenylphenylether	0.775	0.40	mg/Kg dry	1.95	ND	39.7	* 40-140	22.5	30	MS-22
Butylbenzylphthalate	0.831	0.40	mg/Kg dry	1.95	ND	42.5	40-140	25.5	30	
Carbazole	0.750	0.20	mg/Kg dry	1.95	ND	38.4	* 40-140	27.4	30	MS-22
4-Chloroaniline	0.498	0.77	mg/Kg dry	1.95	ND	25.5	* 40-140	33.6	* 30	MS-09, R-06
4-Chloro-3-methylphenol	0.892	0.77	mg/Kg dry	1.95	ND	45.6	30-130	28.7	30	
2-Chloronaphthalene	0.715	0.40	mg/Kg dry	1.95	ND	36.6	* 40-140	16.4	30	MS-22
2-Chlorophenol	0.772	0.40	mg/Kg dry	1.95	ND	39.5	30-130	13.4	30	
4-Chlorophenylphenylether	0.874	0.40	mg/Kg dry	1.95	ND	44.7	40-140	24.5	30	
Chrysene	0.847	0.20	mg/Kg dry	1.95	ND	43.4	40-140	17.6	30	
Dibenz(a,h)anthracene	0.688	0.20	mg/Kg dry	1.95	ND	35.2	* 40-140	27.5	30	MS-22
Dibenzofuran	0.835	0.40	mg/Kg dry	1.95	ND	42.7	40-140	24.7	30	
Di-n-butylphthalate	0.862	0.40	mg/Kg dry	1.95	ND	44.1	40-140	23.9	30	
1,2-Dichlorobenzene	0.705	0.40	mg/Kg dry	1.95	ND	36.1	* 40-140	4.45	30	MS-09
1,3-Dichlorobenzene	0.664	0.40	mg/Kg dry	1.95	ND	34.0	* 40-140	0.236	30	MS-09
1,4-Dichlorobenzene	0.662	0.40	mg/Kg dry	1.95	ND	33.9	* 40-140	0.530	30	MS-09
3,3-Dichlorobenzidine	0.0199	0.20	mg/Kg dry	1.95	ND	1.02	* 40-140	147	* 30	MS-09, R-06
2,4-Dichlorophenol	0.829	0.40	mg/Kg dry	1.95	ND	42.4	30-130	19.2	30	
Diethylphthalate	0.886	0.40	mg/Kg dry	1.95	ND	45.3	40-140	27.6	30	
2,4-Dimethylphenol	0.373	0.40	mg/Kg dry	1.95	ND	19.1	* 30-130	46.3	* 30	MS-23
Dimethylphthalate	0.832	0.40	mg/Kg dry	1.95	ND	42.6	40-140	21.6	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285210 - SW-846 3546										
Matrix Spike Dup (B285210-MSD1)	Source: 21G0063-02			Prepared: 07/02/21 Analyzed: 07/06/21						
4,6-Dinitro-2-methylphenol	0.807	0.40	mg/Kg dry	1.95	ND	41.3	30-130	17.4	30	
2,4-Dinitrophenol	0.873	0.77	mg/Kg dry	1.95	ND	44.7	30-130	9.23	30	V-06
2,4-Dinitrotoluene	0.897	0.40	mg/Kg dry	1.95	ND	45.9	40-140	27.9	30	V-06
2,6-Dinitrotoluene	0.979	0.40	mg/Kg dry	1.95	ND	50.1	40-140	21.9	30	V-06
Di-n-octylphthalate	1.13	0.40	mg/Kg dry	1.95	ND	58.0	40-140	26.8	30	
1,2-Diphenylhydrazine/Azobenzene	0.727	0.40	mg/Kg dry	1.95	ND	37.2	* 40-140	21.3	30	MS-22
Fluoranthene	0.845	0.20	mg/Kg dry	1.95	ND	43.3	40-140	25.5	30	
Fluorene	0.860	0.20	mg/Kg dry	1.95	ND	44.0	40-140	24.8	30	
Hexachlorobenzene	0.829	0.40	mg/Kg dry	1.95	ND	42.4	40-140	26.0	30	
Hexachlorobutadiene	0.802	0.40	mg/Kg dry	1.95	ND	41.1	40-140	4.48	30	
Hexachlorocyclopentadiene	0.501	0.40	mg/Kg dry	1.95	ND	25.7	* 30-130	0.234	30	MS-09
Hexachloroethane	0.684	0.40	mg/Kg dry	1.95	ND	35.0	* 40-140	5.88	30	MS-09
Indeno(1,2,3-cd)pyrene	0.725	0.20	mg/Kg dry	1.95	ND	37.1	* 40-140	25.7	30	MS-22
Isophorone	0.853	0.40	mg/Kg dry	1.95	ND	43.7	40-140	13.2	30	
1-Methylnaphthalene	0.832	0.20	mg/Kg dry	1.95	ND	42.6	40-140	16.7	30	
2-Methylnaphthalene	0.922	0.20	mg/Kg dry	1.95	ND	47.2	40-140	16.9	30	
2-Methylphenol	0.728	0.40	mg/Kg dry	1.95	ND	37.2	30-130	28.6	30	V-06
3/4-Methylphenol	0.827	0.40	mg/Kg dry	1.95	ND	42.3	30-130	23.0	30	
Naphthalene	0.751	0.20	mg/Kg dry	1.95	ND	38.4	* 40-140	8.67	30	MS-22
2-Nitroaniline	1.06	0.40	mg/Kg dry	1.95	ND	54.2	40-140	24.7	30	
3-Nitroaniline	0.645	0.40	mg/Kg dry	1.95	ND	33.0	* 40-140	19.1	30	MS-09, V-06
4-Nitroaniline	0.639	0.40	mg/Kg dry	1.95	ND	32.7	* 40-140	38.1	* 30	MS-23, V-06
Nitrobenzene	0.743	0.40	mg/Kg dry	1.95	ND	38.0	* 40-140	5.47	30	MS-22
2-Nitrophenol	0.823	0.40	mg/Kg dry	1.95	ND	42.1	30-130	3.87	30	
4-Nitrophenol	1.00	0.77	mg/Kg dry	1.95	ND	51.4	30-130	29.3	30	V-06
N-Nitrosodimethylamine	0.597	0.40	mg/Kg dry	1.95	ND	30.5	* 40-140	3.60	30	MS-09
N-Nitrosodiphenylamine/Diphenylamine	0.661	0.40	mg/Kg dry	1.95	ND	33.8	* 40-140	30.6	* 30	MS-23
N-Nitrosodi-n-propylamine	0.853	0.40	mg/Kg dry	1.95	ND	43.6	40-140	7.12	30	
Pentachloronitrobenzene	0.917	0.40	mg/Kg dry	1.95	ND	46.9	40-140	23.5	30	
Pentachlorophenol	0.423	0.40	mg/Kg dry	1.95	ND	21.7	* 30-130	5.57	30	MS-09
Phenanthrene	0.779	0.20	mg/Kg dry	1.95	ND	39.9	* 40-140	24.3	30	MS-22
Phenol	0.786	0.40	mg/Kg dry	1.95	ND	40.2	30-130	15.6	30	
Pyrene	0.767	0.20	mg/Kg dry	1.95	ND	39.2	* 40-140	20.0	30	MS-22
Pyridine	0.407	0.40	mg/Kg dry	1.95	ND	20.8	* 40-140	3.42	30	MS-09
1,2,4,5-Tetrachlorobenzene	0.742	0.40	mg/Kg dry	1.95	ND	38.0	* 40-140	12.5	30	MS-22
1,2,4-Trichlorobenzene	0.786	0.40	mg/Kg dry	1.95	ND	40.2	40-140	7.56	30	
2,4,5-Trichlorophenol	0.871	0.40	mg/Kg dry	1.95	ND	44.6	30-130	23.0	30	
2,4,6-Trichlorophenol	0.745	0.40	mg/Kg dry	1.95	ND	38.1	30-130	22.9	30	
Surrogate: 2-Fluorophenol	2.47		mg/Kg dry	7.82		31.6	30-130			
Surrogate: Phenol-d6	3.73		mg/Kg dry	7.82		47.8	30-130			
Surrogate: Nitrobenzene-d5	1.54		mg/Kg dry	3.91		39.3	30-130			
Surrogate: 2-Fluorobiphenyl	1.60		mg/Kg dry	3.91		40.8	30-130			
Surrogate: 2,4,6-Tribromophenol	3.72		mg/Kg dry	7.82		47.6	30-130			
Surrogate: p-Terphenyl-d14	2.12		mg/Kg dry	3.91		54.2	30-130			

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QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285215 - SW-846 3540C
Blank (B285215-BLK1)

Prepared: 07/02/21 Analyzed: 07/03/21

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.194		mg/Kg wet	0.198		97.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.185		mg/Kg wet	0.198		93.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.198		81.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.158		mg/Kg wet	0.198		79.8	30-150			

LCS (B285215-BS1)

Prepared: 07/02/21 Analyzed: 07/03/21

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.5	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.4	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.8	40-140			
Surrogate: Decachlorobiphenyl	0.182		mg/Kg wet	0.200		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.174		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		78.2	30-150			

LCS Dup (B285215-BSD1)

Prepared: 07/02/21 Analyzed: 07/03/21

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.2	40-140	1.59	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		78.4	40-140	1.46	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.9	40-140	0.547	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.7	40-140	1.24	30	
Surrogate: Decachlorobiphenyl	0.181		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.174		mg/Kg wet	0.200		86.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.157		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.5	30-150			

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B285211 - SW-846 3546										
Blank (B285211-BLK1)					Prepared: 07/02/21 Analyzed: 07/06/21					
Diesel Range Organics	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	2.04		mg/Kg wet	3.33		61.3	40-140			
LCS (B285211-BS1)					Prepared: 07/02/21 Analyzed: 07/06/21					
Diesel Range Organics	24.3	8.3	mg/Kg wet	33.3		72.9	40-140			
Surrogate: 2-Fluorobiphenyl	2.46		mg/Kg wet	3.33		73.9	40-140			
LCS Dup (B285211-BSD1)					Prepared: 07/02/21 Analyzed: 07/06/21					
Diesel Range Organics	22.1	8.3	mg/Kg wet	33.3		66.2	40-140	9.72	30	
Surrogate: 2-Fluorobiphenyl	2.14		mg/Kg wet	3.33		64.3	40-140			
Batch B285555 - SW-846 3546										
Blank (B285555-BLK1)					Prepared: 07/08/21 Analyzed: 07/12/21					
Diesel Range Organics	ND	8.3	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	1.99		mg/Kg wet	3.33		59.7	40-140			
LCS (B285555-BS1)					Prepared: 07/08/21 Analyzed: 07/12/21					
Diesel Range Organics	22.3	8.3	mg/Kg wet	33.3		67.0	40-140			
Surrogate: 2-Fluorobiphenyl	2.05		mg/Kg wet	3.33		61.4	40-140			
LCS Dup (B285555-BSD1)					Prepared: 07/08/21 Analyzed: 07/12/21					
Diesel Range Organics	22.6	8.3	mg/Kg wet	33.3		67.7	40-140	1.03	30	
Surrogate: 2-Fluorobiphenyl	2.04		mg/Kg wet	3.33		61.3	40-140			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285207 - SW-846 3050B
Blank (B285207-BLK1)

Prepared: 07/02/21 Analyzed: 07/06/21

Antimony	ND	1.6	mg/Kg wet						
Arsenic	ND	3.2	mg/Kg wet						
Barium	ND	1.6	mg/Kg wet						
Beryllium	ND	0.16	mg/Kg wet						
Cadmium	ND	0.32	mg/Kg wet						
Chromium	ND	0.64	mg/Kg wet						
Copper	ND	0.64	mg/Kg wet						
Lead	ND	0.48	mg/Kg wet						
Nickel	ND	0.64	mg/Kg wet						
Selenium	ND	3.2	mg/Kg wet						
Silver	ND	0.32	mg/Kg wet						
Thallium	ND	1.6	mg/Kg wet						
Zinc	ND	0.64	mg/Kg wet						

LCS (B285207-BS1)

Prepared: 07/02/21 Analyzed: 07/06/21

Antimony	104	5.0	mg/Kg wet	134		78.0	1.9-200.7		
Arsenic	164	9.9	mg/Kg wet	170		96.4	82.9-117.6		
Barium	159	5.0	mg/Kg wet	183		86.7	82.5-117.5		
Beryllium	106	0.50	mg/Kg wet	116		91.0	83.4-116.4		
Cadmium	81.9	0.99	mg/Kg wet	89.5		91.5	82.8-117.3		
Chromium	87.2	2.0	mg/Kg wet	101		86.4	82.1-117.8		
Copper	130	2.0	mg/Kg wet	149		87.5	83.9-116.1		
Lead	142	1.5	mg/Kg wet	140		101	82.9-117.1		
Nickel	63.2	2.0	mg/Kg wet	68.3		92.6	82.1-117.7		
Selenium	186	9.9	mg/Kg wet	182		102	79.7-120.3		
Silver	40.7	0.99	mg/Kg wet	50.1		81.2	80.2-120		
Thallium	82.9	5.0	mg/Kg wet	87.7		94.5	81.1-118.6		
Zinc	196	2.0	mg/Kg wet	228		86.0	80.7-118.9		

LCS Dup (B285207-BSD1)

Prepared: 07/02/21 Analyzed: 07/06/21

Antimony	99.8	5.0	mg/Kg wet	134		74.5	1.9-200.7	4.60	30
Arsenic	170	10	mg/Kg wet	170		99.9	82.9-117.6	3.61	30
Barium	155	5.0	mg/Kg wet	183		85.0	82.5-117.5	1.98	20
Beryllium	102	0.50	mg/Kg wet	116		87.5	83.4-116.4	3.89	30
Cadmium	80.0	1.0	mg/Kg wet	89.5		89.4	82.8-117.3	2.30	20
Chromium	85.2	2.0	mg/Kg wet	101		84.3	82.1-117.8	2.41	30
Copper	129	2.0	mg/Kg wet	149		86.4	83.9-116.1	1.31	30
Lead	147	1.5	mg/Kg wet	140		105	82.9-117.1	3.51	30
Nickel	61.2	2.0	mg/Kg wet	68.3		89.6	82.1-117.7	3.24	30
Selenium	190	10	mg/Kg wet	182		104	79.7-120.3	2.38	30
Silver	42.9	1.0	mg/Kg wet	50.1		85.7	80.2-120	5.31	30
Thallium	82.9	5.0	mg/Kg wet	87.7		94.6	81.1-118.6	0.0225	30
Zinc	194	2.0	mg/Kg wet	228		84.9	80.7-118.9	1.30	30

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B285207 - SW-846 3050B
Reference (B285207-SRM1) MRL Check

Prepared: 07/02/21 Analyzed: 07/06/21

Lead	0.499	0.48	mg/Kg wet	0.478		104	80-120			
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Batch B285231 - SW-846 7471
Blank (B285231-BLK1)

Prepared: 07/02/21 Analyzed: 07/07/21

Mercury	ND	0.025	mg/Kg wet							
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LCS (B285231-BS1)

Prepared: 07/02/21 Analyzed: 07/07/21

Mercury	14.6	0.74	mg/Kg wet	15.6		93.3	59.3-140.4			
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LCS Dup (B285231-BSD1)

Prepared: 07/02/21 Analyzed: 07/07/21

Mercury	16.1	0.76	mg/Kg wet	15.6		103	59.3-140.4	10.1	20	
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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B285215-BS1 Date(s) Analyzed: 07/03/2021 07/03/2021

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.15	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B285215-BSD1 Date(s) Analyzed: 07/03/2021 07/03/2021
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.15	12.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010D in Soil</i>	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8015C in Soil</i>	
Diesel Range Organics	NY,VA,NH,NC
<i>SW-846 8015C in Water</i>	
Diesel Range Organics	NY,VA,NH,NC
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8260C-D in Soil</i>	
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Diethyl Ether	ME
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C-D in Soil</i>	
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
<i>SW-846 8270D-E in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Soil</i>	
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NY,NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Soil</i>	
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
<i>SW-846 8270D-E in Water</i>	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/ Azobenzene	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D-E in Water</i>	
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

July 13, 2021

Dan Voisin
Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602

Project Location: 100 River St., Springfield, VT
Client Job Number:
Project Number: 19-124
Laboratory Work Order Number: 21G0077

Enclosed are results of analyses for samples received by the laboratory on July 1, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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Stone Environmental
 535 Stone Cutters Ways
 Montpelier, VT 05602
 ATTN: Dan Voisin

REPORT DATE: 7/13/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 19-124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0077

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 100 River St., Springfield, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
05P-SG-01	21G0077-01	Soil Gas		EPA TO-15	
05P-SG-02	21G0077-02	Soil Gas		EPA TO-15	
05P-SG-03	21G0077-03	Soil Gas		EPA TO-15	
05P-SG-04	21G0077-04	Soil Gas		EPA TO-15	
05P-SG-05	21G0077-05	Soil Gas		EPA TO-15	
05P-SG-05-FD	21G0077-06	Soil Gas		EPA TO-15	
05P-SG-06	21G0077-07	Soil Gas		EPA TO-15	
65P-SG-09	21G0077-08	Soil Gas		EPA TO-15	
65P-SG-08	21G0077-09	Soil Gas		EPA TO-15	
65P-SG-07	21G0077-10	Soil Gas		EPA TO-15	
65P-SG-06	21G0077-11	Soil Gas		EPA TO-15	
100R-SG-01	21G0077-12	Soil Gas		EPA TO-15	
100R-SG-02	21G0077-13	Soil Gas		EPA TO-15	
100R-SG-03	21G0077-14	Soil Gas		EPA TO-15	
100R-SG-04	21G0077-15	Soil Gas		EPA TO-15	
100R-SG-09	21G0077-16	Soil Gas		EPA TO-15	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Isopropanol

21G0077-01[05P-SG-01], 21G0077-02[05P-SG-02], 21G0077-03[05P-SG-03], 21G0077-04[05P-SG-04], 21G0077-05RE1[05P-SG-05], 21G0077-06[05P-SG-05-FD], 21G0077-07[05P-SG-06], 21G0077-08[65P-SG-09], 21G0077-09[65P-SG-08], 21G0077-10[65P-SG-07], 21G0077-11[65P-SG-06], 21G0077-12[100R-SG-01], 21G0077-13[100R-SG-02], 21G0077-14[100R-SG-03], B285745-BLK1, B285745-BS1, B285745-DUP1, B285796-BLK1, B285796-BS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene

21G0077-16[100R-SG-09], B285852-BLK1, B285852-BS1, S061469-CCV1

Vinyl Acetate

21G0077-01[05P-SG-01], 21G0077-02[05P-SG-02], 21G0077-03[05P-SG-03], 21G0077-04[05P-SG-04], 21G0077-05[05P-SG-05], 21G0077-06[05P-SG-05-FD], 21G0077-07[05P-SG-06], 21G0077-08[65P-SG-09], 21G0077-09[65P-SG-08], 21G0077-10[65P-SG-07], 21G0077-11[65P-SG-06], 21G0077-12[100R-SG-01], 21G0077-13[100R-SG-02], 21G0077-14[100R-SG-03], 21G0077-15[100R-SG-04], 21G0077-16[100R-SG-09], B285745-BLK1, B285745-BS1, B285745-DUP1, B285796-BLK1, B285796-BS1, B285818-BLK1, B285818-BS1, B285852-BLK1, B285852-BS1, S061421-CCV1, S061443-CCV1, S061451-CCV1, S061469-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene

21G0077-15[100R-SG-04], 21G0077-16[100R-SG-09], B285818-BLK1, B285818-BS1, B285852-BLK1, B285852-BS1, S061451-CCV1, S061469-CCV1

Z-01

Compound fails the method requirement of 70-130% recovery for the LCS. Is classified by the lab as a difficult compound and passes the in house limits of 50-150%.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene

21G0077-15[100R-SG-04], 21G0077-16[100R-SG-09], B285818-BLK1, B285818-BS1, B285852-BLK1, B285852-BS1

Naphthalene

21G0077-01[05P-SG-01], 21G0077-02[05P-SG-02], 21G0077-03[05P-SG-03], 21G0077-04[05P-SG-04], 21G0077-05[05P-SG-05], 21G0077-06[05P-SG-05-FD], 21G0077-07[05P-SG-06], 21G0077-08[65P-SG-09], 21G0077-09[65P-SG-08], 21G0077-10[65P-SG-07], 21G0077-11[65P-SG-06], 21G0077-12[100R-SG-01], 21G0077-13[100R-SG-02], 21G0077-14[100R-SG-03], 21G0077-15[100R-SG-04], 21G0077-16[100R-SG-09], B285745-BLK1, B285745-BS1, B285745-DUP1, B285796-BLK1, B285796-BS1, B285818-BLK1, B285818-BS1, B285852-BLK1, B285852-BS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-01
Sample ID: 21G0077-01
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 09:51

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2275
 Canister Size: 3 liter
 Flow Controller ID: 4346
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -2.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	15	4.0		36	9.5	2	7/9/21 16:42	BRF	
Benzene	3.8	0.10		12	0.32	2	7/9/21 16:42	BRF	
Benzyl chloride	ND	0.10		ND	0.52	2	7/9/21 16:42	BRF	
Bromodichloromethane	ND	0.10		ND	0.67	2	7/9/21 16:42	BRF	
Bromoform	ND	0.10		ND	1.0	2	7/9/21 16:42	BRF	
Bromomethane	ND	0.10		ND	0.39	2	7/9/21 16:42	BRF	
1,3-Butadiene	2.0	0.10		4.4	0.22	2	7/9/21 16:42	BRF	
2-Butanone (MEK)	ND	4.0		ND	12	2	7/9/21 16:42	BRF	
Carbon Disulfide	ND	1.0		ND	3.1	2	7/9/21 16:42	BRF	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/9/21 16:42	BRF	
Chlorobenzene	ND	0.10		ND	0.46	2	7/9/21 16:42	BRF	
Chloroethane	ND	0.10		ND	0.26	2	7/9/21 16:42	BRF	
Chloroform	0.19	0.10		0.93	0.49	2	7/9/21 16:42	BRF	
Chloromethane	ND	0.20		ND	0.41	2	7/9/21 16:42	BRF	
Cyclohexane	ND	0.10		ND	0.34	2	7/9/21 16:42	BRF	
Dibromochloromethane	ND	0.10		ND	0.85	2	7/9/21 16:42	BRF	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/9/21 16:42	BRF	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21 16:42	BRF	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21 16:42	BRF	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21 16:42	BRF	
Dichlorodifluoromethane (Freon 12)	0.41	0.10		2.0	0.49	2	7/9/21 16:42	BRF	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21 16:42	BRF	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21 16:42	BRF	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21 16:42	BRF	
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21 16:42	BRF	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21 16:42	BRF	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/9/21 16:42	BRF	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21 16:42	BRF	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21 16:42	BRF	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/9/21 16:42	BRF	
1,4-Dioxane	ND	1.0		ND	3.6	2	7/9/21 16:42	BRF	
Ethanol	12	4.0		22	7.5	2	7/9/21 16:42	BRF	
Ethyl Acetate	ND	1.0		ND	3.6	2	7/9/21 16:42	BRF	
Ethylbenzene	0.25	0.10		1.1	0.43	2	7/9/21 16:42	BRF	
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/9/21 16:42	BRF	
Heptane	ND	0.10		ND	0.41	2	7/9/21 16:42	BRF	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/9/21 16:42	BRF	

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-01
Sample ID: 21G0077-01
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 09:51

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2275
 Canister Size: 3 liter
 Flow Controller ID: 4346
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -2.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0	L-03	ND	14	2	7/9/21 16:42	BRF	
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/9/21 16:42	BRF	
Isopropanol	ND	4.0		ND	9.8	2	7/9/21 16:42	BRF	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/9/21 16:42	BRF	
Methylene Chloride	ND	1.0	Z-01	ND	3.5	2	7/9/21 16:42	BRF	
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/9/21 16:42	BRF	
Naphthalene	ND	0.10		ND	0.52	2	7/9/21 16:42	BRF	
Propene	8.9	4.0		15	6.9	2	7/9/21 16:42	BRF	
Styrene	0.27	0.10	V-05	1.2	0.43	2	7/9/21 16:42	BRF	
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/9/21 16:42	BRF	
Tetrachloroethylene	ND	0.10		ND	0.68	2	7/9/21 16:42	BRF	
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/9/21 16:42	BRF	
Toluene	2.5	0.10		9.5	0.38	2	7/9/21 16:42	BRF	
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/9/21 16:42	BRF	
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21 16:42	BRF	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21 16:42	BRF	
Trichloroethylene	ND	0.10		ND	0.54	2	7/9/21 16:42	BRF	
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/9/21 16:42	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/9/21 16:42	BRF	
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/9/21 16:42	BRF	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/9/21 16:42	BRF	
Vinyl Acetate	ND	2.0		ND	7.0	2	7/9/21 16:42	BRF	
Vinyl Chloride	ND	0.10		ND	0.26	2	7/9/21 16:42	BRF	
m&p-Xylene	0.43	0.20		1.9	0.87	2	7/9/21 16:42	BRF	
o-Xylene	0.24	0.10	1.0	0.43	2	7/9/21 16:42	BRF		

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	106	70-130	7/9/21 16:42

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-02
Sample ID: 21G0077-02
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 10:06

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2364
 Canister Size: 3 liter
 Flow Controller ID: 4253
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	12	4.0		29	9.5	2	7/9/21 18:02		BRF
Benzene	ND	0.10		ND	0.32	2	7/9/21 18:02		BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/9/21 18:02		BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/9/21 18:02		BRF
Bromoform	ND	0.10		ND	1.0	2	7/9/21 18:02		BRF
Bromomethane	ND	0.10		ND	0.39	2	7/9/21 18:02		BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/9/21 18:02		BRF
2-Butanone (MEK)	4.7	4.0		14	12	2	7/9/21 18:02		BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/9/21 18:02		BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/9/21 18:02		BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/9/21 18:02		BRF
Chloroethane	ND	0.10		ND	0.26	2	7/9/21 18:02		BRF
Chloroform	ND	0.10		ND	0.49	2	7/9/21 18:02		BRF
Chloromethane	ND	0.20		ND	0.41	2	7/9/21 18:02		BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/9/21 18:02		BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/9/21 18:02		BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/9/21 18:02		BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21 18:02		BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21 18:02		BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21 18:02		BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/9/21 18:02		BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21 18:02		BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21 18:02		BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21 18:02		BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21 18:02		BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21 18:02		BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/9/21 18:02		BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21 18:02		BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21 18:02		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/9/21 18:02		BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/9/21 18:02		BRF
Ethanol	76	4.0		140	7.5	2	7/9/21 18:02		BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/9/21 18:02		BRF
Ethylbenzene	0.17	0.10		0.74	0.43	2	7/9/21 18:02		BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/9/21 18:02		BRF
Heptane	ND	0.10		ND	0.41	2	7/9/21 18:02		BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/9/21 18:02		BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-02
Sample ID: 21G0077-02
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 10:06

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2364
 Canister Size: 3 liter
 Flow Controller ID: 4253
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0	L-03	ND	14	2	7/9/21	18:02	BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/9/21	18:02	BRF
Isopropanol	4.3	4.0		11	9.8	2	7/9/21	18:02	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/9/21	18:02	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/9/21	18:02	BRF
4-Methyl-2-pentanone (MIBK)	1.0	0.10	Z-01	4.1	0.41	2	7/9/21	18:02	BRF
Naphthalene	ND	0.10		ND	0.52	2	7/9/21	18:02	BRF
Propene	ND	4.0		ND	6.9	2	7/9/21	18:02	BRF
Styrene	ND	0.10		ND	0.43	2	7/9/21	18:02	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/9/21	18:02	BRF
Tetrachloroethylene	ND	0.10		ND	0.68	2	7/9/21	18:02	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/9/21	18:02	BRF
Toluene	0.64	0.10		2.4	0.38	2	7/9/21	18:02	BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/9/21	18:02	BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21	18:02	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21	18:02	BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/9/21	18:02	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/9/21	18:02	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/9/21	18:02	BRF
1,2,4-Trimethylbenzene	0.14	0.10		0.70	0.49	2	7/9/21	18:02	BRF
1,3,5-Trimethylbenzene	ND	0.10	V-05	ND	0.49	2	7/9/21	18:02	BRF
Vinyl Acetate	ND	2.0		ND	7.0	2	7/9/21	18:02	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/9/21	18:02	BRF
m&p-Xylene	0.70	0.20		3.0	0.87	2	7/9/21	18:02	BRF
o-Xylene	0.26	0.10		1.1	0.43	2	7/9/21	18:02	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	107	70-130	7/9/21 18:02

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-03
Sample ID: 21G0077-03
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 10:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2381
 Canister Size: 3 liter
 Flow Controller ID: 4118
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	8.2	4.0		20	9.5	2	7/9/21	20:05	BRF
Benzene	0.14	0.10		0.45	0.32	2	7/9/21	20:05	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/9/21	20:05	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/9/21	20:05	BRF
Bromoform	ND	0.10		ND	1.0	2	7/9/21	20:05	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/9/21	20:05	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/9/21	20:05	BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/9/21	20:05	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/9/21	20:05	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/9/21	20:05	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/9/21	20:05	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/9/21	20:05	BRF
Chloroform	0.38	0.10		1.8	0.49	2	7/9/21	20:05	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/9/21	20:05	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/9/21	20:05	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/9/21	20:05	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/9/21	20:05	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21	20:05	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21	20:05	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21	20:05	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/9/21	20:05	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21	20:05	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21	20:05	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21	20:05	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21	20:05	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21	20:05	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/9/21	20:05	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21	20:05	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21	20:05	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/9/21	20:05	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/9/21	20:05	BRF
Ethanol	5.9	4.0		11	7.5	2	7/9/21	20:05	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/9/21	20:05	BRF
Ethylbenzene	ND	0.10		ND	0.43	2	7/9/21	20:05	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/9/21	20:05	BRF
Heptane	ND	0.10		ND	0.41	2	7/9/21	20:05	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/9/21	20:05	BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-03
Sample ID: 21G0077-03
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 10:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2381
 Canister Size: 3 liter
 Flow Controller ID: 4118
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0	L-03	ND	14	2	7/9/21	20:05	BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/9/21	20:05	BRF
Isopropanol	ND	4.0		ND	9.8	2	7/9/21	20:05	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/9/21	20:05	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/9/21	20:05	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	Z-01	ND	0.41	2	7/9/21	20:05	BRF
Naphthalene	ND	0.10		ND	0.52	2	7/9/21	20:05	BRF
Propene	ND	4.0		ND	6.9	2	7/9/21	20:05	BRF
Styrene	ND	0.10		ND	0.43	2	7/9/21	20:05	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/9/21	20:05	BRF
Tetrachloroethylene	ND	0.10	V-05	ND	0.68	2	7/9/21	20:05	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/9/21	20:05	BRF
Toluene	0.31	0.10		1.2	0.38	2	7/9/21	20:05	BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/9/21	20:05	BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21	20:05	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21	20:05	BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/9/21	20:05	BRF
Trichlorofluoromethane (Freon 11)	0.80	0.40		4.5	2.2	2	7/9/21	20:05	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/9/21	20:05	BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/9/21	20:05	BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/9/21	20:05	BRF
Vinyl Acetate	ND	2.0		ND	7.0	2	7/9/21	20:05	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/9/21	20:05	BRF
m&p-Xylene	ND	0.20		ND	0.87	2	7/9/21	20:05	BRF
o-Xylene	ND	0.10		ND	0.43	2	7/9/21	20:05	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	106	70-130	7/9/21 20:05

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-04
Sample ID: 21G0077-04
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 11:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2586
 Canister Size: 3 liter
 Flow Controller ID: 4331
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	65	4.0		150	9.5	2	7/9/21 21:25		BRF
Benzene	0.30	0.10		0.97	0.32	2	7/9/21 21:25		BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/9/21 21:25		BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/9/21 21:25		BRF
Bromoform	ND	0.10		ND	1.0	2	7/9/21 21:25		BRF
Bromomethane	ND	0.10		ND	0.39	2	7/9/21 21:25		BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/9/21 21:25		BRF
2-Butanone (MEK)	12	4.0		36	12	2	7/9/21 21:25		BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/9/21 21:25		BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/9/21 21:25		BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/9/21 21:25		BRF
Chloroethane	ND	0.10		ND	0.26	2	7/9/21 21:25		BRF
Chloroform	0.34	0.10		1.6	0.49	2	7/9/21 21:25		BRF
Chloromethane	ND	0.20		ND	0.41	2	7/9/21 21:25		BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/9/21 21:25		BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/9/21 21:25		BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/9/21 21:25		BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21 21:25		BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21 21:25		BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21 21:25		BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/9/21 21:25		BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21 21:25		BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21 21:25		BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21 21:25		BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21 21:25		BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21 21:25		BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/9/21 21:25		BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21 21:25		BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21 21:25		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/9/21 21:25		BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/9/21 21:25		BRF
Ethanol	13	4.0		25	7.5	2	7/9/21 21:25		BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/9/21 21:25		BRF
Ethylbenzene	0.44	0.10		1.9	0.43	2	7/9/21 21:25		BRF
4-Ethyltoluene	0.35	0.10		1.7	0.49	2	7/9/21 21:25		BRF
Heptane	ND	0.10		ND	0.41	2	7/9/21 21:25		BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/9/21 21:25		BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-04
Sample ID: 21G0077-04
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 11:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2586
 Canister Size: 3 liter
 Flow Controller ID: 4331
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	4.0		ND	14	2	7/9/21 21:25	BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/9/21 21:25	BRF
Isopropanol	ND	4.0	L-03	ND	9.8	2	7/9/21 21:25	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/9/21 21:25	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/9/21 21:25	BRF
4-Methyl-2-pentanone (MIBK)	4.1	0.10		17	0.41	2	7/9/21 21:25	BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/9/21 21:25	BRF
Propene	ND	4.0		ND	6.9	2	7/9/21 21:25	BRF
Styrene	ND	0.10		ND	0.43	2	7/9/21 21:25	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/9/21 21:25	BRF
Tetrachloroethylene	0.11	0.10		0.73	0.68	2	7/9/21 21:25	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/9/21 21:25	BRF
Toluene	1.5	0.10		5.5	0.38	2	7/9/21 21:25	BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/9/21 21:25	BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21 21:25	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21 21:25	BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/9/21 21:25	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/9/21 21:25	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/9/21 21:25	BRF
1,2,4-Trimethylbenzene	1.6	0.10		7.7	0.49	2	7/9/21 21:25	BRF
1,3,5-Trimethylbenzene	0.37	0.10		1.8	0.49	2	7/9/21 21:25	BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/9/21 21:25	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/9/21 21:25	BRF
m&p-Xylene	2.2	0.20		9.3	0.87	2	7/9/21 21:25	BRF
o-Xylene	0.83	0.10		3.6	0.43	2	7/9/21 21:25	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	107	70-130	7/9/21 21:25

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-05
Sample ID: 21G0077-05
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 11:20

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2579
 Canister Size: 3 liter
 Flow Controller ID: 4330
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -3.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	150	80		350	190	40	7/9/21	23:32	BRF
Benzene	0.25	0.10		0.80	0.32	2	7/9/21	22:51	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/9/21	22:51	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/9/21	22:51	BRF
Bromoform	ND	0.10		ND	1.0	2	7/9/21	22:51	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/9/21	22:51	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/9/21	22:51	BRF
2-Butanone (MEK)	15	4.0		44	12	2	7/9/21	22:51	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/9/21	22:51	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/9/21	22:51	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/9/21	22:51	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/9/21	22:51	BRF
Chloroform	1.3	0.10		6.3	0.49	2	7/9/21	22:51	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/9/21	22:51	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/9/21	22:51	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/9/21	22:51	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/9/21	22:51	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21	22:51	BRF
1,3-Dichlorobenzene	1.1	0.10		6.6	0.60	2	7/9/21	22:51	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/9/21	22:51	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/9/21	22:51	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21	22:51	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/9/21	22:51	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21	22:51	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21	22:51	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/9/21	22:51	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/9/21	22:51	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21	22:51	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/9/21	22:51	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/9/21	22:51	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/9/21	22:51	BRF
Ethanol	70	4.0		130	7.5	2	7/9/21	22:51	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/9/21	22:51	BRF
Ethylbenzene	0.34	0.10		1.5	0.43	2	7/9/21	22:51	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/9/21	22:51	BRF
Heptane	ND	0.10		ND	0.41	2	7/9/21	22:51	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/9/21	22:51	BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-05
Sample ID: 21G0077-05
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 11:20

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2579
 Canister Size: 3 liter
 Flow Controller ID: 4330
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -3.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0	L-03	ND	14	2	7/9/21	22:51	BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/9/21	22:51	BRF
Isopropanol	140	80		330	200	40	7/9/21	23:32	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/9/21	22:51	BRF
Methylene Chloride	ND	1.0	Z-01	ND	3.5	2	7/9/21	22:51	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/9/21	22:51	BRF
Naphthalene	0.77	0.10		4.0	0.52	2	7/9/21	22:51	BRF
Propene	6.5	4.0		11	6.9	2	7/9/21	22:51	BRF
Styrene	ND	0.10	V-05	ND	0.43	2	7/9/21	22:51	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/9/21	22:51	BRF
Tetrachloroethylene	ND	0.10		ND	0.68	2	7/9/21	22:51	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/9/21	22:51	BRF
Toluene	1.6	0.10		6.1	0.38	2	7/9/21	22:51	BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/9/21	22:51	BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21	22:51	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/9/21	22:51	BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/9/21	22:51	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/9/21	22:51	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/9/21	22:51	BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/9/21	22:51	BRF
1,3,5-Trimethylbenzene	0.17	0.10		0.84	0.49	2	7/9/21	22:51	BRF
Vinyl Acetate	ND	2.0		ND	7.0	2	7/9/21	22:51	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/9/21	22:51	BRF
m&p-Xylene	1.4	0.20		6.2	0.87	2	7/9/21	22:51	BRF
o-Xylene	0.50	0.10	2.2	0.43	2	7/9/21	22:51	BRF	
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	108			70-130 7/9/21 23:32					
4-Bromofluorobenzene (1)	108			70-130 7/9/21 22:51					

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-05-FD
Sample ID: 21G0077-06
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 11:20

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2433
 Canister Size: 3 liter
 Flow Controller ID: 4328
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -2.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	150	80		350	190	40	7/10/21	0:57	BRF
Benzene	0.36	0.10		1.2	0.32	2	7/10/21	0:16	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/10/21	0:16	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/10/21	0:16	BRF
Bromoform	ND	0.10		ND	1.0	2	7/10/21	0:16	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/10/21	0:16	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/10/21	0:16	BRF
2-Butanone (MEK)	15	4.0		44	12	2	7/10/21	0:16	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/10/21	0:16	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/10/21	0:16	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/10/21	0:16	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/10/21	0:16	BRF
Chloroform	3.6	0.10		18	0.49	2	7/10/21	0:16	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/10/21	0:16	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/10/21	0:16	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/10/21	0:16	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/10/21	0:16	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21	0:16	BRF
1,3-Dichlorobenzene	0.81	0.10		4.9	0.60	2	7/10/21	0:16	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21	0:16	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/10/21	0:16	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21	0:16	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21	0:16	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21	0:16	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21	0:16	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21	0:16	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/10/21	0:16	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21	0:16	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21	0:16	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/10/21	0:16	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/10/21	0:16	BRF
Ethanol	84	4.0		160	7.5	2	7/10/21	0:16	BRF
Ethyl Acetate	12	1.0		44	3.6	2	7/10/21	0:16	BRF
Ethylbenzene	0.35	0.10		1.5	0.43	2	7/10/21	0:16	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/10/21	0:16	BRF
Heptane	0.50	0.10		2.0	0.41	2	7/10/21	0:16	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/10/21	0:16	BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-05-FD
Sample ID: 21G0077-06
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 11:20

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2433
 Canister Size: 3 liter
 Flow Controller ID: 4328
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -2.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0	L-03	ND	14	2	7/10/21	0:16	BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/10/21	0:16	BRF
Isopropanol	90	4.0		220	9.8	2	7/10/21	0:16	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/10/21	0:16	BRF
Methylene Chloride	ND	1.0	Z-01	ND	3.5	2	7/10/21	0:16	BRF
4-Methyl-2-pentanone (MIBK)	1.4	0.10		5.7	0.41	2	7/10/21	0:16	BRF
Naphthalene	0.96	0.10		5.0	0.52	2	7/10/21	0:16	BRF
Propene	6.4	4.0		11	6.9	2	7/10/21	0:16	BRF
Styrene	ND	0.10		ND	0.43	2	7/10/21	0:16	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/10/21	0:16	BRF
Tetrachloroethylene	ND	0.10		ND	0.68	2	7/10/21	0:16	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/10/21	0:16	BRF
Toluene	2.3	0.10		8.6	0.38	2	7/10/21	0:16	BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/10/21	0:16	BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21	0:16	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21	0:16	BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/10/21	0:16	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/10/21	0:16	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/10/21	0:16	BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21	0:16	BRF
1,3,5-Trimethylbenzene	0.15	0.10		0.72	0.49	2	7/10/21	0:16	BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/10/21	0:16	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/10/21	0:16	BRF
m&p-Xylene	1.4	0.20		5.9	0.87	2	7/10/21	0:16	BRF
o-Xylene	0.47	0.10		2.0	0.43	2	7/10/21	0:16	BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	108			70-130				7/10/21	0:57
4-Bromofluorobenzene (1)	107			70-130				7/10/21	0:16

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-06
Sample ID: 21G0077-07
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 11:34

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2403
 Canister Size: 3 liter
 Flow Controller ID: 4340
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	9.4	4.0		22	9.5	2	7/10/21 1:41		BRF
Benzene	ND	0.10		ND	0.32	2	7/10/21 1:41		BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/10/21 1:41		BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/10/21 1:41		BRF
Bromoform	ND	0.10		ND	1.0	2	7/10/21 1:41		BRF
Bromomethane	ND	0.10		ND	0.39	2	7/10/21 1:41		BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/10/21 1:41		BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/10/21 1:41		BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/10/21 1:41		BRF
Carbon Tetrachloride	0.44	0.10		2.7	0.63	2	7/10/21 1:41		BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/10/21 1:41		BRF
Chloroethane	ND	0.10		ND	0.26	2	7/10/21 1:41		BRF
Chloroform	ND	0.10		ND	0.49	2	7/10/21 1:41		BRF
Chloromethane	ND	0.20		ND	0.41	2	7/10/21 1:41		BRF
Cyclohexane	2.2	0.10		7.7	0.34	2	7/10/21 1:41		BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/10/21 1:41		BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/10/21 1:41		BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 1:41		BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 1:41		BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 1:41		BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/10/21 1:41		BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 1:41		BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 1:41		BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 1:41		BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 1:41		BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 1:41		BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/10/21 1:41		BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 1:41		BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 1:41		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/10/21 1:41		BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/10/21 1:41		BRF
Ethanol	ND	4.0		ND	7.5	2	7/10/21 1:41		BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/10/21 1:41		BRF
Ethylbenzene	ND	0.10		ND	0.43	2	7/10/21 1:41		BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/10/21 1:41		BRF
Heptane	ND	0.10		ND	0.41	2	7/10/21 1:41		BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/10/21 1:41		BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 05P-SG-06
Sample ID: 21G0077-07
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 11:34

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2403
 Canister Size: 3 liter
 Flow Controller ID: 4340
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0	L-03	ND	14	2	7/10/21	1:41	BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/10/21	1:41	BRF
Isopropanol	ND	4.0		ND	9.8	2	7/10/21	1:41	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/10/21	1:41	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/10/21	1:41	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10	Z-01	ND	0.41	2	7/10/21	1:41	BRF
Naphthalene	ND	0.10		ND	0.52	2	7/10/21	1:41	BRF
Propene	ND	4.0		ND	6.9	2	7/10/21	1:41	BRF
Styrene	ND	0.10		ND	0.43	2	7/10/21	1:41	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/10/21	1:41	BRF
Tetrachloroethylene	0.14	0.10	V-05	0.94	0.68	2	7/10/21	1:41	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/10/21	1:41	BRF
Toluene	0.16	0.10		0.62	0.38	2	7/10/21	1:41	BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/10/21	1:41	BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21	1:41	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21	1:41	BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/10/21	1:41	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/10/21	1:41	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/10/21	1:41	BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21	1:41	BRF
1,3,5-Trimethylbenzene	ND	0.10	ND	0.49	2	7/10/21	1:41	BRF	
Vinyl Acetate	ND	2.0		ND	7.0	2	7/10/21	1:41	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/10/21	1:41	BRF
m&p-Xylene	ND	0.20		ND	0.87	2	7/10/21	1:41	BRF
o-Xylene	ND	0.10		ND	0.43	2	7/10/21	1:41	BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	107	70-130	7/10/21	1:41

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 65P-SG-09
Sample ID: 21G0077-08
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 13:39

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2418
 Canister Size: 3 liter
 Flow Controller ID: 4156
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -26
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	25	4.0		60	9.5	2	7/10/21 3:06		BRF
Benzene	6.0	0.10		19	0.32	2	7/10/21 3:06		BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/10/21 3:06		BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/10/21 3:06		BRF
Bromoform	ND	0.10		ND	1.0	2	7/10/21 3:06		BRF
Bromomethane	ND	0.10		ND	0.39	2	7/10/21 3:06		BRF
1,3-Butadiene	4.4	0.10		9.7	0.22	2	7/10/21 3:06		BRF
2-Butanone (MEK)	4.6	4.0		14	12	2	7/10/21 3:06		BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/10/21 3:06		BRF
Carbon Tetrachloride	8.1	0.10		51	0.63	2	7/10/21 3:06		BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/10/21 3:06		BRF
Chloroethane	ND	0.10		ND	0.26	2	7/10/21 3:06		BRF
Chloroform	3.8	0.10		19	0.49	2	7/10/21 3:06		BRF
Chloromethane	ND	0.20		ND	0.41	2	7/10/21 3:06		BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/10/21 3:06		BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/10/21 3:06		BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/10/21 3:06		BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 3:06		BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 3:06		BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 3:06		BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/10/21 3:06		BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 3:06		BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 3:06		BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 3:06		BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 3:06		BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 3:06		BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/10/21 3:06		BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 3:06		BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 3:06		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/10/21 3:06		BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/10/21 3:06		BRF
Ethanol	11	4.0		20	7.5	2	7/10/21 3:06		BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/10/21 3:06		BRF
Ethylbenzene	0.26	0.10		1.1	0.43	2	7/10/21 3:06		BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/10/21 3:06		BRF
Heptane	0.59	0.10		2.4	0.41	2	7/10/21 3:06		BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/10/21 3:06		BRF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 65P-SG-09
Sample ID: 21G0077-08
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 13:39

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2418
 Canister Size: 3 liter
 Flow Controller ID: 4156
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -26
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/10/21 3:06		BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/10/21 3:06		BRF
Isopropanol	ND	4.0	L-03	ND	9.8	2	7/10/21 3:06		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/10/21 3:06		BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/10/21 3:06		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/10/21 3:06		BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/10/21 3:06		BRF
Propene	42	4.0		72	6.9	2	7/10/21 3:06		BRF
Styrene	0.14	0.10		0.59	0.43	2	7/10/21 3:06		BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/10/21 3:06		BRF
Tetrachloroethylene	0.19	0.10		1.3	0.68	2	7/10/21 3:06		BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/10/21 3:06		BRF
Toluene	3.0	0.10		11	0.38	2	7/10/21 3:06		BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/10/21 3:06		BRF
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21 3:06		BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21 3:06		BRF
Trichloroethylene	0.34	0.10		1.8	0.54	2	7/10/21 3:06		BRF
Trichlorofluoromethane (Freon 11)	510	8.0		2800	45	40	7/10/21 3:47		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/10/21 3:06		BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21 3:06		BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21 3:06		BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/10/21 3:06		BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/10/21 3:06		BRF
m&p-Xylene	0.65	0.20		2.8	0.87	2	7/10/21 3:06		BRF
o-Xylene	0.35	0.10		1.5	0.43	2	7/10/21 3:06		BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	108			70-130			7/10/21 3:06		
4-Bromofluorobenzene (1)	107			70-130			7/10/21 3:47		

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 65P-SG-08
Sample ID: 21G0077-09
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 14:13

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2413
 Canister Size: 3 liter
 Flow Controller ID: 4345
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	21	4.0		49	9.5	2	7/10/21	4:31	BRF
Benzene	1.7	0.10		5.3	0.32	2	7/10/21	4:31	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/10/21	4:31	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/10/21	4:31	BRF
Bromoform	ND	0.10		ND	1.0	2	7/10/21	4:31	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/10/21	4:31	BRF
1,3-Butadiene	2.7	0.10		5.9	0.22	2	7/10/21	4:31	BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/10/21	4:31	BRF
Carbon Disulfide	1.2	1.0		3.8	3.1	2	7/10/21	4:31	BRF
Carbon Tetrachloride	0.24	0.10		1.5	0.63	2	7/10/21	4:31	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/10/21	4:31	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/10/21	4:31	BRF
Chloroform	ND	0.10		ND	0.49	2	7/10/21	4:31	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/10/21	4:31	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/10/21	4:31	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/10/21	4:31	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/10/21	4:31	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21	4:31	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21	4:31	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21	4:31	BRF
Dichlorodifluoromethane (Freon 12)	1.3	0.10		6.3	0.49	2	7/10/21	4:31	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21	4:31	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21	4:31	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21	4:31	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21	4:31	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21	4:31	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/10/21	4:31	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21	4:31	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21	4:31	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/10/21	4:31	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/10/21	4:31	BRF
Ethanol	14	4.0		26	7.5	2	7/10/21	4:31	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/10/21	4:31	BRF
Ethylbenzene	0.19	0.10		0.84	0.43	2	7/10/21	4:31	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/10/21	4:31	BRF
Heptane	0.40	0.10		1.7	0.41	2	7/10/21	4:31	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/10/21	4:31	BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 65P-SG-08
Sample ID: 21G0077-09
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 14:13

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2413
 Canister Size: 3 liter
 Flow Controller ID: 4345
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/10/21 4:31		BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/10/21 4:31		BRF
Isopropanol	ND	4.0	L-03	ND	9.8	2	7/10/21 4:31		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/10/21 4:31		BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/10/21 4:31		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/10/21 4:31		BRF
Naphthalene	0.93	0.10	Z-01	4.9	0.52	2	7/10/21 4:31		BRF
Propene	15	4.0		26	6.9	2	7/10/21 4:31		BRF
Styrene	0.22	0.10		0.95	0.43	2	7/10/21 4:31		BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/10/21 4:31		BRF
Tetrachloroethylene	0.25	0.10		1.7	0.68	2	7/10/21 4:31		BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/10/21 4:31		BRF
Toluene	1.3	0.10		5.1	0.38	2	7/10/21 4:31		BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/10/21 4:31		BRF
1,1,1-Trichloroethane	0.27	0.10		1.5	0.55	2	7/10/21 4:31		BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21 4:31		BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/10/21 4:31		BRF
Trichlorofluoromethane (Freon 11)	2000	8.0		11000	45	40	7/10/21 5:12		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/10/21 4:31		BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21 4:31		BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21 4:31		BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/10/21 4:31		BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/10/21 4:31		BRF
m&p-Xylene	0.39	0.20		1.7	0.87	2	7/10/21 4:31		BRF
o-Xylene	0.21	0.10		0.92	0.43	2	7/10/21 4:31		BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	108			70-130			7/10/21 5:12		
4-Bromofluorobenzene (1)	107			70-130			7/10/21 4:31		

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 65P-SG-07
Sample ID: 21G0077-10
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 14:36

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2582
 Canister Size: 3 liter
 Flow Controller ID: 4341
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	12	4.0		27	9.5	2	7/10/21 5:56		BRF
Benzene	1.6	0.10		5.2	0.32	2	7/10/21 5:56		BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/10/21 5:56		BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/10/21 5:56		BRF
Bromoform	ND	0.10		ND	1.0	2	7/10/21 5:56		BRF
Bromomethane	ND	0.10		ND	0.39	2	7/10/21 5:56		BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/10/21 5:56		BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/10/21 5:56		BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/10/21 5:56		BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/10/21 5:56		BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/10/21 5:56		BRF
Chloroethane	ND	0.10		ND	0.26	2	7/10/21 5:56		BRF
Chloroform	1.2	0.10		6.1	0.49	2	7/10/21 5:56		BRF
Chloromethane	ND	0.20		ND	0.41	2	7/10/21 5:56		BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/10/21 5:56		BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/10/21 5:56		BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/10/21 5:56		BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 5:56		BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 5:56		BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 5:56		BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/10/21 5:56		BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 5:56		BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 5:56		BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 5:56		BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 5:56		BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 5:56		BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/10/21 5:56		BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 5:56		BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 5:56		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/10/21 5:56		BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/10/21 5:56		BRF
Ethanol	12	4.0		23	7.5	2	7/10/21 5:56		BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/10/21 5:56		BRF
Ethylbenzene	0.18	0.10		0.78	0.43	2	7/10/21 5:56		BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/10/21 5:56		BRF
Heptane	0.39	0.10		1.6	0.41	2	7/10/21 5:56		BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/10/21 5:56		BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 65P-SG-07
Sample ID: 21G0077-10
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 14:36

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2582
 Canister Size: 3 liter
 Flow Controller ID: 4341
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/10/21 5:56		BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/10/21 5:56		BRF
Isopropanol	ND	4.0	L-03	ND	9.8	2	7/10/21 5:56		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/10/21 5:56		BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/10/21 5:56		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/10/21 5:56		BRF
Naphthalene	0.59	0.10	Z-01	3.1	0.52	2	7/10/21 5:56		BRF
Propene	23	4.0		39	6.9	2	7/10/21 5:56		BRF
Styrene	0.23	0.10		0.98	0.43	2	7/10/21 5:56		BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/10/21 5:56		BRF
Tetrachloroethylene	62	0.10		420	0.68	2	7/10/21 5:56		BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/10/21 5:56		BRF
Toluene	1.3	0.10		4.7	0.38	2	7/10/21 5:56		BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/10/21 5:56		BRF
1,1,1-Trichloroethane	12	0.10		68	0.55	2	7/10/21 5:56		BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21 5:56		BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/10/21 5:56		BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/10/21 5:56		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/10/21 5:56		BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21 5:56		BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21 5:56		BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/10/21 5:56		BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/10/21 5:56		BRF
m&p-Xylene	0.42	0.20		1.8	0.87	2	7/10/21 5:56		BRF
o-Xylene	0.23	0.10		1.00	0.43	2	7/10/21 5:56		BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	107	70-130	7/10/21	5:56

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 65P-SG-06
Sample ID: 21G0077-11
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 14:53

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2272
 Canister Size: 3 liter
 Flow Controller ID: 4342
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	7.3	4.0		17	9.5	2	7/10/21 7:21		BRF
Benzene	0.37	0.10		1.2	0.32	2	7/10/21 7:21		BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/10/21 7:21		BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/10/21 7:21		BRF
Bromoform	ND	0.10		ND	1.0	2	7/10/21 7:21		BRF
Bromomethane	ND	0.10		ND	0.39	2	7/10/21 7:21		BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/10/21 7:21		BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/10/21 7:21		BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/10/21 7:21		BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/10/21 7:21		BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/10/21 7:21		BRF
Chloroethane	ND	0.10		ND	0.26	2	7/10/21 7:21		BRF
Chloroform	0.20	0.10		0.97	0.49	2	7/10/21 7:21		BRF
Chloromethane	ND	0.20		ND	0.41	2	7/10/21 7:21		BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/10/21 7:21		BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/10/21 7:21		BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/10/21 7:21		BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 7:21		BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 7:21		BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 7:21		BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/10/21 7:21		BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 7:21		BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 7:21		BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 7:21		BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 7:21		BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 7:21		BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/10/21 7:21		BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 7:21		BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 7:21		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/10/21 7:21		BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/10/21 7:21		BRF
Ethanol	4.9	4.0		9.2	7.5	2	7/10/21 7:21		BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/10/21 7:21		BRF
Ethylbenzene	ND	0.10		ND	0.43	2	7/10/21 7:21		BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/10/21 7:21		BRF
Heptane	1.0	0.10		4.2	0.41	2	7/10/21 7:21		BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/10/21 7:21		BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 65P-SG-06
Sample ID: 21G0077-11
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 14:53

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2272
 Canister Size: 3 liter
 Flow Controller ID: 4342
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/10/21 7:21		BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/10/21 7:21		BRF
Isopropanol	ND	4.0	L-03	ND	9.8	2	7/10/21 7:21		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/10/21 7:21		BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/10/21 7:21		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/10/21 7:21		BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/10/21 7:21		BRF
Propene	ND	4.0		ND	6.9	2	7/10/21 7:21		BRF
Styrene	0.12	0.10		0.49	0.43	2	7/10/21 7:21		BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/10/21 7:21		BRF
Tetrachloroethylene	4.8	0.10		33	0.68	2	7/10/21 7:21		BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/10/21 7:21		BRF
Toluene	0.38	0.10		1.4	0.38	2	7/10/21 7:21		BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/10/21 7:21		BRF
1,1,1-Trichloroethane	1.9	0.10		10	0.55	2	7/10/21 7:21		BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21 7:21		BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/10/21 7:21		BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/10/21 7:21		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/10/21 7:21		BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21 7:21		BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/10/21 7:21		BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/10/21 7:21		BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/10/21 7:21		BRF
m&p-Xylene	0.23	0.20		0.99	0.87	2	7/10/21 7:21		BRF
o-Xylene	0.13	0.10		0.56	0.43	2	7/10/21 7:21		BRF

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	108	70-130	7/10/21	7:21

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-01
Sample ID: 21G0077-12
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 16:23

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2417
 Canister Size: 3 liter
 Flow Controller ID: 4319
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -2.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	17	4.0		40	9.5	2	7/10/21 9:27		BRF
Benzene	2.9	0.10		9.3	0.32	2	7/10/21 9:27		BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/10/21 9:27		BRF
Bromodichloromethane	0.47	0.10		3.2	0.67	2	7/10/21 9:27		BRF
Bromoform	ND	0.10		ND	1.0	2	7/10/21 9:27		BRF
Bromomethane	ND	0.10		ND	0.39	2	7/10/21 9:27		BRF
1,3-Butadiene	2.4	0.10		5.2	0.22	2	7/10/21 9:27		BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/10/21 9:27		BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/10/21 9:27		BRF
Carbon Tetrachloride	0.15	0.10		0.96	0.63	2	7/10/21 9:27		BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/10/21 9:27		BRF
Chloroethane	ND	0.10		ND	0.26	2	7/10/21 9:27		BRF
Chloroform	5.5	0.10		27	0.49	2	7/10/21 9:27		BRF
Chloromethane	ND	0.20		ND	0.41	2	7/10/21 9:27		BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/10/21 9:27		BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/10/21 9:27		BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/10/21 9:27		BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 9:27		BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 9:27		BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21 9:27		BRF
Dichlorodifluoromethane (Freon 12)	0.47	0.10		2.3	0.49	2	7/10/21 9:27		BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 9:27		BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21 9:27		BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 9:27		BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 9:27		BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21 9:27		BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/10/21 9:27		BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 9:27		BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21 9:27		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/10/21 9:27		BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/10/21 9:27		BRF
Ethanol	46	4.0		87	7.5	2	7/10/21 9:27		BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/10/21 9:27		BRF
Ethylbenzene	1.7	0.10		7.3	0.43	2	7/10/21 9:27		BRF
4-Ethyltoluene	1.2	0.10		5.7	0.49	2	7/10/21 9:27		BRF
Heptane	ND	0.10		ND	0.41	2	7/10/21 9:27		BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/10/21 9:27		BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-01
Sample ID: 21G0077-12
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 16:23

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2417
 Canister Size: 3 liter
 Flow Controller ID: 4319
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -2
 Receipt Vacuum(in Hg): -2.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/10/21 9:27		BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/10/21 9:27		BRF
Isopropanol	5.1	4.0	L-03	12	9.8	2	7/10/21 9:27		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/10/21 9:27		BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/10/21 9:27		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/10/21 9:27		BRF
Naphthalene	2.4	0.10	Z-01	13	0.52	2	7/10/21 9:27		BRF
Propene	19	4.0		33	6.9	2	7/10/21 9:27		BRF
Styrene	0.52	0.10		2.2	0.43	2	7/10/21 9:27		BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/10/21 9:27		BRF
Tetrachloroethylene	1.3	0.10		9.1	0.68	2	7/10/21 9:27		BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/10/21 9:27		BRF
Toluene	5.6	0.10		21	0.38	2	7/10/21 9:27		BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/10/21 9:27		BRF
1,1,1-Trichloroethane	0.42	0.10		2.3	0.55	2	7/10/21 9:27		BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21 9:27		BRF
Trichloroethylene	0.93	0.10		5.0	0.54	2	7/10/21 9:27		BRF
Trichlorofluoromethane (Freon 11)	11	0.40		62	2.2	2	7/10/21 9:27		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/10/21 9:27		BRF
1,2,4-Trimethylbenzene	11	0.10		55	0.49	2	7/10/21 9:27		BRF
1,3,5-Trimethylbenzene	5.8	0.10		29	0.49	2	7/10/21 9:27		BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/10/21 9:27		BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/10/21 9:27		BRF
m&p-Xylene	11	0.20		47	0.87	2	7/10/21 9:27		BRF
o-Xylene	14	0.10		62	0.43	2	7/10/21 9:27		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	7/10/21 9:27

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-02
Sample ID: 21G0077-13
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 16:42

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2431
 Canister Size: 3 liter
 Flow Controller ID: 4323
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -2.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	1500	600		3600	1400	300	7/13/21	0:44	BRF
Benzene	3.7	0.10		12	0.32	2	7/10/21	10:52	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/10/21	10:52	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/10/21	10:52	BRF
Bromoform	ND	0.10		ND	1.0	2	7/10/21	10:52	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/10/21	10:52	BRF
1,3-Butadiene	2.1	0.10		4.7	0.22	2	7/10/21	10:52	BRF
2-Butanone (MEK)	62	4.0		180	12	2	7/10/21	10:52	BRF
Carbon Disulfide	3.1	1.0		9.7	3.1	2	7/10/21	10:52	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/10/21	10:52	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/10/21	10:52	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/10/21	10:52	BRF
Chloroform	0.86	0.10		4.2	0.49	2	7/10/21	10:52	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/10/21	10:52	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/10/21	10:52	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/10/21	10:52	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/10/21	10:52	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21	10:52	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21	10:52	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/10/21	10:52	BRF
Dichlorodifluoromethane (Freon 12)	0.40	0.10		2.0	0.49	2	7/10/21	10:52	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21	10:52	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/10/21	10:52	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21	10:52	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21	10:52	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/10/21	10:52	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/10/21	10:52	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21	10:52	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/10/21	10:52	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/10/21	10:52	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/10/21	10:52	BRF
Ethanol	12000	600		23000	1100	300	7/13/21	0:44	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/10/21	10:52	BRF
Ethylbenzene	5.6	0.10		24	0.43	2	7/10/21	10:52	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/10/21	10:52	BRF
Heptane	1.0	0.10		4.2	0.41	2	7/10/21	10:52	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/10/21	10:52	BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-02
Sample ID: 21G0077-13
 Sample Matrix: Soil Gas
 Sampled: 6/29/2021 16:42

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2431
 Canister Size: 3 liter
 Flow Controller ID: 4323
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -2.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0	L-03	ND	14	2	7/10/21	10:52	BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/10/21	10:52	BRF
Isopropanol	97	4.0		240	9.8	2	7/10/21	10:52	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/10/21	10:52	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/10/21	10:52	BRF
4-Methyl-2-pentanone (MIBK)	6.3	0.10	Z-01	26	0.41	2	7/10/21	10:52	BRF
Naphthalene	ND	0.10		ND	0.52	2	7/10/21	10:52	BRF
Propene	7.9	4.0		14	6.9	2	7/10/21	10:52	BRF
Styrene	ND	0.10		ND	0.43	2	7/10/21	10:52	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/10/21	10:52	BRF
Tetrachloroethylene	6.0	0.10		40	0.68	2	7/10/21	10:52	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/10/21	10:52	BRF
Toluene	5.8	0.10		22	0.38	2	7/10/21	10:52	BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/10/21	10:52	BRF
1,1,1-Trichloroethane	0.10	0.10		0.56	0.55	2	7/10/21	10:52	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/10/21	10:52	BRF
Trichloroethylene	1.8	0.10		9.9	0.54	2	7/10/21	10:52	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/10/21	10:52	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/10/21	10:52	BRF
1,2,4-Trimethylbenzene	540	15		2600	74	300	7/13/21	0:44	BRF
1,3,5-Trimethylbenzene	69	0.10	V-05	340	0.49	2	7/10/21	10:52	BRF
Vinyl Acetate	ND	2.0		ND	7.0	2	7/10/21	10:52	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/10/21	10:52	BRF
m&p-Xylene	18	0.20		80	0.87	2	7/10/21	10:52	BRF
o-Xylene	19	0.10		81	0.43	2	7/10/21	10:52	BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	106			70-130 7/13/21 0:44					
4-Bromofluorobenzene (1)	105			70-130 7/10/21 10:52					

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-03
Sample ID: 21G0077-14
 Sample Matrix: Soil Gas
 Sampled: 6/30/2021 11:53

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2438
 Canister Size: 3 liter
 Flow Controller ID: 4355
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	730	80		1700	190	40	7/13/21	2:07	BRF
Benzene	7.6	0.10		24	0.32	2	7/13/21	1:27	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/13/21	1:27	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/13/21	1:27	BRF
Bromoform	ND	0.10		ND	1.0	2	7/13/21	1:27	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/13/21	1:27	BRF
1,3-Butadiene	16	0.10		35	0.22	2	7/13/21	1:27	BRF
2-Butanone (MEK)	57	4.0		170	12	2	7/13/21	1:27	BRF
Carbon Disulfide	18	1.0		55	3.1	2	7/13/21	1:27	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/13/21	1:27	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/13/21	1:27	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/13/21	1:27	BRF
Chloroform	1.0	0.10		5.1	0.49	2	7/13/21	1:27	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/13/21	1:27	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/13/21	1:27	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/13/21	1:27	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/13/21	1:27	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/13/21	1:27	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/13/21	1:27	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/13/21	1:27	BRF
Dichlorodifluoromethane (Freon 12)	0.98	0.10		4.8	0.49	2	7/13/21	1:27	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/13/21	1:27	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/13/21	1:27	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/13/21	1:27	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/13/21	1:27	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/13/21	1:27	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/13/21	1:27	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/13/21	1:27	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/13/21	1:27	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/13/21	1:27	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/13/21	1:27	BRF
Ethanol	650	80		1200	150	40	7/13/21	2:07	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/13/21	1:27	BRF
Ethylbenzene	1.2	0.10		5.4	0.43	2	7/13/21	1:27	BRF
4-Ethyltoluene	0.36	0.10		1.8	0.49	2	7/13/21	1:27	BRF
Heptane	3.6	0.10		15	0.41	2	7/13/21	1:27	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/13/21	1:27	BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-03
Sample ID: 21G0077-14
 Sample Matrix: Soil Gas
 Sampled: 6/30/2021 11:53

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2438
 Canister Size: 3 liter
 Flow Controller ID: 4355
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	6.6	4.0		23	14	2	7/13/21 1:27		BRF
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/13/21 1:27		BRF
Isopropanol	95	4.0	L-03	230	9.8	2	7/13/21 1:27		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/13/21 1:27		BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/13/21 1:27		BRF
4-Methyl-2-pentanone (MIBK)	3.2	0.10		13	0.41	2	7/13/21 1:27		BRF
Naphthalene	1.6	0.10	Z-01	8.6	0.52	2	7/13/21 1:27		BRF
Propene	92	4.0		160	6.9	2	7/13/21 1:27		BRF
Styrene	0.75	0.10		3.2	0.43	2	7/13/21 1:27		BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/13/21 1:27		BRF
Tetrachloroethylene	8.1	0.10		55	0.68	2	7/13/21 1:27		BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/13/21 1:27		BRF
Toluene	11	0.10		42	0.38	2	7/13/21 1:27		BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/13/21 1:27		BRF
1,1,1-Trichloroethane	0.66	0.10		3.6	0.55	2	7/13/21 1:27		BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/13/21 1:27		BRF
Trichloroethylene	17	0.10		90	0.54	2	7/13/21 1:27		BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/13/21 1:27		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/13/21 1:27		BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/13/21 1:27		BRF
1,3,5-Trimethylbenzene	0.61	0.10		3.0	0.49	2	7/13/21 1:27		BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/13/21 1:27		BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/13/21 1:27		BRF
m&p-Xylene	3.6	0.20		16	0.87	2	7/13/21 1:27		BRF
o-Xylene	1.3	0.10		5.8	0.43	2	7/13/21 1:27		BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	108			70-130			7/13/21 1:27		
4-Bromofluorobenzene (1)	105			70-130			7/13/21 2:07		

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-04
Sample ID: 21G0077-15
 Sample Matrix: Soil Gas
 Sampled: 6/30/2021 12:54

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2401
 Canister Size: 3 liter
 Flow Controller ID: 4121
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	360	60		850	140	30	7/13/21 8:42		BRF
Benzene	ND	0.10		ND	0.32	2	7/13/21 8:17		BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/13/21 8:17		BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/13/21 8:17		BRF
Bromoform	ND	0.10		ND	1.0	2	7/13/21 8:17		BRF
Bromomethane	ND	0.10		ND	0.39	2	7/13/21 8:17		BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/13/21 8:17		BRF
2-Butanone (MEK)	8.7	4.0		26	12	2	7/13/21 8:17		BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/13/21 8:17		BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/13/21 8:17		BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/13/21 8:17		BRF
Chloroethane	ND	0.10		ND	0.26	2	7/13/21 8:17		BRF
Chloroform	0.74	0.10		3.6	0.49	2	7/13/21 8:17		BRF
Chloromethane	ND	0.20		ND	0.41	2	7/13/21 8:17		BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/13/21 8:17		BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/13/21 8:17		BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/13/21 8:17		BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/13/21 8:17		BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/13/21 8:17		BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/13/21 8:17		BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/13/21 8:17		BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/13/21 8:17		BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/13/21 8:17		BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/13/21 8:17		BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/13/21 8:17		BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/13/21 8:17		BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/13/21 8:17		BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/13/21 8:17		BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/13/21 8:17		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/13/21 8:17		BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/13/21 8:17		BRF
Ethanol	85	4.0		160	7.5	2	7/13/21 8:17		BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/13/21 8:17		BRF
Ethylbenzene	0.24	0.10		1.0	0.43	2	7/13/21 8:17		BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/13/21 8:17		BRF
Heptane	ND	0.10		ND	0.41	2	7/13/21 8:17		BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/13/21 8:17		BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-04
Sample ID: 21G0077-15
 Sample Matrix: Soil Gas
 Sampled: 6/30/2021 12:54

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2401
 Canister Size: 3 liter
 Flow Controller ID: 4121
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/13/21 8:17		BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/13/21 8:17		BRF
Isopropanol	6.7	4.0		17	9.8	2	7/13/21 8:17		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/13/21 8:17		BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/13/21 8:17		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/13/21 8:17		BRF
Naphthalene	3.8	0.10	Z-01	20	0.52	2	7/13/21 8:17		BRF
Propene	13	4.0		22	6.9	2	7/13/21 8:17		BRF
Styrene	ND	0.10		ND	0.43	2	7/13/21 8:17		BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/13/21 8:17		BRF
Tetrachloroethylene	4.9	0.10		33	0.68	2	7/13/21 8:17		BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/13/21 8:17		BRF
Toluene	1.3	0.10		4.9	0.38	2	7/13/21 8:17		BRF
1,2,4-Trichlorobenzene	ND	0.10	V-34, Z-01	ND	0.74	2	7/13/21 8:17		BRF
1,1,1-Trichloroethane	2.3	0.10		13	0.55	2	7/13/21 8:17		BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/13/21 8:17		BRF
Trichloroethylene	28	0.10		150	0.54	2	7/13/21 8:17		BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/13/21 8:17		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/13/21 8:17		BRF
1,2,4-Trimethylbenzene	1.6	0.10		8.0	0.49	2	7/13/21 8:17		BRF
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/13/21 8:17		BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/13/21 8:17		BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/13/21 8:17		BRF
m&p-Xylene	0.86	0.20		3.7	0.87	2	7/13/21 8:17		BRF
o-Xylene	0.38	0.10		1.6	0.43	2	7/13/21 8:17		BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	94.2			70-130			7/13/21 8:17		
4-Bromofluorobenzene (1)	89.9			70-130			7/13/21 8:42		

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-09
Sample ID: 21G0077-16
 Sample Matrix: Soil Gas
 Sampled: 6/30/2021 11:57

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2405
 Canister Size: 3 liter
 Flow Controller ID: 4097
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	24	4.0		58	9.5	2	7/13/21	15:17	BRF
Benzene	0.47	0.10		1.5	0.32	2	7/13/21	15:17	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/13/21	15:17	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/13/21	15:17	BRF
Bromoform	ND	0.10		ND	1.0	2	7/13/21	15:17	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/13/21	15:17	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/13/21	15:17	BRF
2-Butanone (MEK)	5.2	4.0		15	12	2	7/13/21	15:17	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/13/21	15:17	BRF
Carbon Tetrachloride	0.21	0.10		1.3	0.63	2	7/13/21	15:17	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/13/21	15:17	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/13/21	15:17	BRF
Chloroform	1.1	0.10		5.5	0.49	2	7/13/21	15:17	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/13/21	15:17	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/13/21	15:17	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/13/21	15:17	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/13/21	15:17	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/13/21	15:17	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/13/21	15:17	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/13/21	15:17	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/13/21	15:17	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/13/21	15:17	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/13/21	15:17	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/13/21	15:17	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/13/21	15:17	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/13/21	15:17	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/13/21	15:17	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/13/21	15:17	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/13/21	15:17	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/13/21	15:17	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/13/21	15:17	BRF
Ethanol	47	4.0		89	7.5	2	7/13/21	15:17	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/13/21	15:17	BRF
Ethylbenzene	0.13	0.10		0.55	0.43	2	7/13/21	15:17	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/13/21	15:17	BRF
Heptane	0.40	0.10		1.6	0.41	2	7/13/21	15:17	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/13/21	15:17	BRF

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ANALYTICAL RESULTS

Project Location: 100 River St., Springfield, VT
 Date Received: 7/1/2021
Field Sample #: 100R-SG-09
Sample ID: 21G0077-16
 Sample Matrix: Soil Gas
 Sampled: 6/30/2021 11:57

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2405
 Canister Size: 3 liter
 Flow Controller ID: 4097
 Sample Type: 30 min

Work Order: 21G0077
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0	Z-01	ND	14	2	7/13/21	15:17	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/13/21	15:17	BRF
Isopropanol	5.8	4.0		14	9.8	2	7/13/21	15:17	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/13/21	15:17	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/13/21	15:17	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/13/21	15:17	BRF
Naphthalene	ND	0.10		ND	0.52	2	7/13/21	15:17	BRF
Propene	ND	4.0		ND	6.9	2	7/13/21	15:17	BRF
Styrene	ND	0.10		ND	0.43	2	7/13/21	15:17	BRF
1,1,2,2-Tetrachloroethane	ND	0.10	V-05, V-34, Z-01	ND	0.69	2	7/13/21	15:17	BRF
Tetrachloroethylene	3.2	0.10		22	0.68	2	7/13/21	15:17	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/13/21	15:17	BRF
Toluene	0.79	0.10		3.0	0.38	2	7/13/21	15:17	BRF
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/13/21	15:17	BRF
1,1,1-Trichloroethane	0.17	0.10		0.95	0.55	2	7/13/21	15:17	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/13/21	15:17	BRF
Trichloroethylene	22	0.10		120	0.54	2	7/13/21	15:17	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/13/21	15:17	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	ND	3.1	2	7/13/21	15:17	BRF	
1,2,4-Trimethylbenzene	ND	0.10	ND	0.49	2	7/13/21	15:17	BRF	
1,3,5-Trimethylbenzene	ND	0.10	ND	0.49	2	7/13/21	15:17	BRF	
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/13/21	15:17	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/13/21	15:17	BRF
m&p-Xylene	0.32	0.20		1.4	0.87	2	7/13/21	15:17	BRF
o-Xylene	0.14	0.10		0.59	0.43	2	7/13/21	15:17	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	89.1	70-130	7/13/21 15:17

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Sample Extraction Data
Prep Method: TO-15 Prep Analytical Method: EP

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
21G0077-01 [05P-SG-01]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-02 [05P-SG-02]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-03 [05P-SG-03]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-04 [05P-SG-04]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-05 [05P-SG-05]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-05RE1 [05P-SG-05]	B285745	1.5	1	N/A	1000	400	15	07/09/21
21G0077-06 [05P-SG-05-FD]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-06RE1 [05P-SG-05-FD]	B285745	1.5	1	N/A	1000	400	15	07/09/21
21G0077-07 [05P-SG-06]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-08 [65P-SG-09]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-08RE1 [65P-SG-09]	B285745	1.5	1	N/A	1000	400	15	07/09/21
21G0077-09 [65P-SG-08]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-09RE1 [65P-SG-08]	B285745	1.5	1	N/A	1000	400	15	07/09/21
21G0077-10 [65P-SG-07]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-11 [65P-SG-06]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-12 [100R-SG-01]	B285745	1.5	1	N/A	1000	400	300	07/09/21
21G0077-13 [100R-SG-02]	B285745	1.5	1	N/A	1000	400	300	07/09/21

Prep Method: TO-15 Prep Analytical Method: EP

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
21G0077-13RE1 [100R-SG-02]	B285796	1.5	200	5	1000	400	400	07/12/21
21G0077-14 [100R-SG-03]	B285796	1.5	1	N/A	1000	400	300	07/12/21
21G0077-14RE1 [100R-SG-03]	B285796	1.5	1	N/A	1000	400	15	07/12/21

Prep Method: TO-15 Prep Analytical Method: EP

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
21G0077-15 [100R-SG-04]	B285818	1.5	1	N/A	1000	200	150	07/12/21
21G0077-15RE1 [100R-SG-04]	B285818	1.5	1	N/A	1000	200	10	07/12/21

Prep Method: TO-15 Prep Analytical Method: EP

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
21G0077-16 [100R-SG-09]	B285852	1.5	1	N/A	1000	200	150	07/13/21

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits		Limit	
Batch B285745 - TO-15 Prep											
Blank (B285745-BLK1)					Prepared & Analyzed: 07/09/21						
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.020									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									L-0
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									Z-0
Propene	ND	0.80									
Styrene	ND	0.020									

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit	

Batch B285745 - TO-15 Prep
Blank (B285745-BLK1)

Prepared & Analyzed: 07/09/21

1,1,2,2-Tetrachloroethane	ND	0.020								
Tetrachloroethylene	ND	0.020								
Tetrahydrofuran	ND	0.20								
Toluene	ND	0.020								
1,2,4-Trichlorobenzene	ND	0.020								
1,1,1-Trichloroethane	ND	0.020								
1,1,2-Trichloroethane	ND	0.020								
Trichloroethylene	ND	0.020								
Trichlorofluoromethane (Freon 11)	ND	0.080								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080								
1,2,4-Trimethylbenzene	ND	0.020								
1,3,5-Trimethylbenzene	ND	0.020								
Vinyl Acetate	ND	0.40								V-05
Vinyl Chloride	ND	0.020								
m&p-Xylene	ND	0.040								
o-Xylene	ND	0.020								

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	8.53				8.00		107	70-130		
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LCS (B285745-BS1)

Prepared & Analyzed: 07/09/21

Acetone	4.20				5.00		84.0	70-130		
Benzene	4.29				5.00		85.7	70-130		
Benzyl chloride	3.57				5.00		71.4	70-130		
Bromodichloromethane	4.35				5.00		87.0	70-130		
Bromoform	4.63				5.00		92.7	70-130		
Bromomethane	5.18				5.00		104	70-130		
1,3-Butadiene	4.26				5.00		85.3	70-130		
2-Butanone (MEK)	4.25				5.00		84.9	70-130		
Carbon Disulfide	5.03				5.00		101	70-130		
Carbon Tetrachloride	4.85				5.00		97.0	70-130		
Chlorobenzene	4.38				5.00		87.5	70-130		
Chloroethane	4.93				5.00		98.6	70-130		
Chloroform	5.29				5.00		106	70-130		
Chloromethane	4.49				5.00		89.9	70-130		
Cyclohexane	4.00				5.00		80.0	70-130		
Dibromochloromethane	4.62				5.00		92.4	70-130		
1,2-Dibromoethane (EDB)	4.39				5.00		87.9	70-130		
1,2-Dichlorobenzene	4.07				5.00		81.3	70-130		
1,3-Dichlorobenzene	4.27				5.00		85.3	70-130		
1,4-Dichlorobenzene	4.17				5.00		83.4	70-130		
Dichlorodifluoromethane (Freon 12)	5.51				5.00		110	70-130		
1,1-Dichloroethane	4.96				5.00		99.1	70-130		
1,2-Dichloroethane	5.01				5.00		100	70-130		
1,1-Dichloroethylene	5.03				5.00		101	70-130		
cis-1,2-Dichloroethylene	4.85				5.00		97.0	70-130		
trans-1,2-Dichloroethylene	4.81				5.00		96.1	70-130		
1,2-Dichloropropane	4.14				5.00		82.7	70-130		

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B285745 - TO-15 Prep											
LCS (B285745-BS1)					Prepared & Analyzed: 07/09/21						
cis-1,3-Dichloropropene	4.12				5.00		82.5	70-130			
trans-1,3-Dichloropropene	4.27				5.00		85.4	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.03				5.00		101	70-130			
1,4-Dioxane	4.10				5.00		82.1	70-130			
Ethanol	5.12				5.00		102	70-130			
Ethyl Acetate	3.62				5.00		72.4	70-130			
Ethylbenzene	4.30				5.00		86.1	70-130			
4-Ethyltoluene	4.18				5.00		83.7	70-130			
Heptane	3.84				5.00		76.9	70-130			
Hexachlorobutadiene	3.68				5.00		73.7	70-130			
Hexane	4.82				5.00		96.5	70-130			
2-Hexanone (MBK)	3.60				5.00		72.1	70-130			
Isopropanol	3.48				5.00		69.7	* 70-130			L-03
Methyl tert-Butyl Ether (MTBE)	5.01				5.00		100	70-130			
Methylene Chloride	4.46				5.00		89.2	70-130			
4-Methyl-2-pentanone (MIBK)	3.64				5.00		72.8	70-130			
Naphthalene	3.17				5.00		63.4	* 70-130			Z-01
Propene	3.94				5.00		78.8	70-130			
Styrene	4.22				5.00		84.5	70-130			
1,1,2,2-Tetrachloroethane	3.80				5.00		75.9	70-130			
Tetrachloroethylene	4.92				5.00		98.5	70-130			
Tetrahydrofuran	4.49				5.00		89.8	70-130			
Toluene	4.39				5.00		87.7	70-130			
1,2,4-Trichlorobenzene	3.53				5.00		70.5	70-130			
1,1,1-Trichloroethane	4.50				5.00		90.1	70-130			
1,1,2-Trichloroethane	4.41				5.00		88.2	70-130			
Trichloroethylene	4.49				5.00		89.9	70-130			
Trichlorofluoromethane (Freon 11)	5.46				5.00		109	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.66				5.00		113	70-130			
1,2,4-Trimethylbenzene	4.02				5.00		80.4	70-130			
1,3,5-Trimethylbenzene	4.14				5.00		82.7	70-130			
Vinyl Acetate	4.70				5.00		94.0	70-130			V-05
Vinyl Chloride	4.65				5.00		93.1	70-130			
m&p-Xylene	8.60				10.0		86.0	70-130			
o-Xylene	4.22				5.00		84.3	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.53				8.00		107	70-130			

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits				
Batch B285745 - TO-15 Prep											
Duplicate (B285745-DUP1)		Source: 21G0077-02				Prepared & Analyzed: 07/09/21					
Acetone	12	4.0	29	9.5		12			0.755	25	
Benzene	0.062	0.10	0.20	0.32		0.060			3.28	25	
Benzyl chloride	ND	0.10	ND	0.52		ND				25	
Bromodichloromethane	ND	0.10	ND	0.67		ND				25	
Bromoform	ND	0.10	ND	1.0		ND				25	
Bromomethane	ND	0.10	ND	0.39		ND				25	
1,3-Butadiene	ND	0.10	ND	0.22		ND				25	
2-Butanone (MEK)	4.6	4.0	14	12		4.7			0.947	25	
Carbon Disulfide	ND	1.0	ND	3.1		ND				25	
Carbon Tetrachloride	ND	0.10	ND	0.63		ND				25	
Chlorobenzene	ND	0.10	ND	0.46		ND				25	
Chloroethane	ND	0.10	ND	0.26		ND				25	
Chloroform	ND	0.10	ND	0.49		ND				25	
Chloromethane	ND	0.20	ND	0.41		ND				25	
Cyclohexane	ND	0.10	ND	0.34		ND				25	
Dibromochloromethane	ND	0.10	ND	0.85		ND				25	
1,2-Dibromoethane (EDB)	ND	0.10	ND	0.77		ND				25	
1,2-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,3-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,4-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
Dichlorodifluoromethane (Freon 12)	ND	0.10	ND	0.49		ND				25	
1,1-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,2-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,1-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
cis-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
trans-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
1,2-Dichloropropane	ND	0.10	ND	0.46		ND				25	
cis-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
trans-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	ND	0.70		ND				25	
1,4-Dioxane	ND	1.0	ND	3.6		ND				25	
Ethanol	76	4.0	140	7.5		76			0.360	25	
Ethyl Acetate	ND	1.0	ND	3.6		ND				25	
Ethylbenzene	0.17	0.10	0.75	0.43		0.17			1.17	25	
4-Ethyltoluene	ND	0.10	ND	0.49		ND				25	
Heptane	ND	0.10	ND	0.41		ND				25	
Hexachlorobutadiene	ND	0.10	ND	1.1		ND				25	
Hexane	ND	4.0	ND	14		ND				25	
2-Hexanone (MBK)	ND	0.10	ND	0.41		ND				25	
Isopropanol	4.4	4.0	11	9.8		4.3			0.970	25	L-0
Methyl tert-Butyl Ether (MTBE)	ND	0.10	ND	0.36		ND				25	
Methylene Chloride	ND	1.0	ND	3.5		ND				25	
4-Methyl-2-pentanone (MIBK)	1.0	0.10	4.2	0.41		1.0			2.38	25	
Naphthalene	ND	0.10	ND	0.52		ND				25	Z-0
Propene	ND	4.0	ND	6.9		ND				25	
Styrene	ND	0.10	ND	0.43		ND				25	

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							

Batch B285745 - TO-15 Prep

Duplicate (B285745-DUP1)		Source: 21G0077-02				Prepared & Analyzed: 07/09/21					
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	
Tetrachloroethylene	ND	0.10	ND	0.68		ND				25	
Tetrahydrofuran	ND	1.0	ND	2.9		ND				25	
Toluene	0.65	0.10	2.4	0.38		0.64			0.930	25	
1,2,4-Trichlorobenzene	ND	0.10	ND	0.74		ND				25	
1,1,1-Trichloroethane	ND	0.10	ND	0.55		ND				25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Trichloroethylene	ND	0.10	ND	0.54		ND				25	
Trichlorofluoromethane (Freon 11)	0.28	0.40	1.6	2.2		0.27			5.80	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	ND	3.1		ND				25	
1,2,4-Trimethylbenzene	0.15	0.10	0.76	0.49		0.14			8.11	25	
1,3,5-Trimethylbenzene	0.052	0.10	0.26	0.49		0.050			3.92	25	
Vinyl Acetate	ND	2.0	ND	7.0		ND				25	V-05
Vinyl Chloride	ND	0.10	ND	0.26		ND				25	
m&p-Xylene	0.70	0.20	3.0	0.87		0.70			0.858	25	
o-Xylene	0.26	0.10	1.1	0.43		0.26			0.766	25	
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>8.54</i>				<i>8.00</i>		<i>107</i>	<i>70-130</i>			

Batch B285796 - TO-15 Prep

Blank (B285796-BLK1)		Prepared & Analyzed: 07/12/21									
Acetone	ND	0.80									
Benzene	ND	0.020									
Benzyl chloride	ND	0.020									
Bromodichloromethane	ND	0.020									
Bromoform	ND	0.020									
Bromomethane	ND	0.020									
1,3-Butadiene	ND	0.020									
2-Butanone (MEK)	ND	0.80									
Carbon Disulfide	ND	0.20									
Carbon Tetrachloride	ND	0.020									
Chlorobenzene	ND	0.020									
Chloroethane	ND	0.020									
Chloroform	ND	0.020									
Chloromethane	ND	0.040									
Cyclohexane	ND	0.020									
Dibromochloromethane	ND	0.020									
1,2-Dibromoethane (EDB)	ND	0.020									
1,2-Dichlorobenzene	ND	0.020									
1,3-Dichlorobenzene	ND	0.020									
1,4-Dichlorobenzene	ND	0.020									
Dichlorodifluoromethane (Freon 12)	ND	0.020									
1,1-Dichloroethane	ND	0.020									
1,2-Dichloroethane	ND	0.020									
1,1-Dichloroethylene	ND	0.020									
cis-1,2-Dichloroethylene	ND	0.020									

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B285796 - TO-15 Prep											
Blank (B285796-BLK1)					Prepared & Analyzed: 07/12/21						
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									L-03
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									Z-01
Propene	ND	0.80									
Styrene	ND	0.020									
1,1,2,2-Tetrachloroethane	ND	0.020									
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.20									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.080									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									V-05
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	8.27				8.00		103	70-130			

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B285796 - TO-15 Prep											
LCS (B285796-BS1)					Prepared & Analyzed: 07/12/21						
Acetone	3.90				5.00		78.0	70-130			
Benzene	4.25				5.00		85.0	70-130			
Benzyl chloride	3.68				5.00		73.6	70-130			
Bromodichloromethane	4.16				5.00		83.3	70-130			
Bromoform	4.59				5.00		91.9	70-130			
Bromomethane	5.59				5.00		112	70-130			
1,3-Butadiene	4.16				5.00		83.3	70-130			
2-Butanone (MEK)	4.32				5.00		86.5	70-130			
Carbon Disulfide	5.16				5.00		103	70-130			
Carbon Tetrachloride	4.47				5.00		89.5	70-130			
Chlorobenzene	4.50				5.00		90.1	70-130			
Chloroethane	4.86				5.00		97.1	70-130			
Chloroform	5.30				5.00		106	70-130			
Chloromethane	4.49				5.00		89.7	70-130			
Cyclohexane	4.06				5.00		81.3	70-130			
Dibromochloromethane	4.56				5.00		91.1	70-130			
1,2-Dibromoethane (EDB)	4.46				5.00		89.3	70-130			
1,2-Dichlorobenzene	4.17				5.00		83.3	70-130			
1,3-Dichlorobenzene	4.39				5.00		87.8	70-130			
1,4-Dichlorobenzene	4.27				5.00		85.3	70-130			
Dichlorodifluoromethane (Freon 12)	5.44				5.00		109	70-130			
1,1-Dichloroethane	5.02				5.00		100	70-130			
1,2-Dichloroethane	4.92				5.00		98.3	70-130			
1,1-Dichloroethylene	5.04				5.00		101	70-130			
cis-1,2-Dichloroethylene	4.95				5.00		98.9	70-130			
trans-1,2-Dichloroethylene	4.84				5.00		96.8	70-130			
1,2-Dichloropropane	4.07				5.00		81.4	70-130			
cis-1,3-Dichloropropene	4.18				5.00		83.5	70-130			
trans-1,3-Dichloropropene	4.28				5.00		85.5	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.16				5.00		103	70-130			
1,4-Dioxane	4.24				5.00		84.9	70-130			
Ethanol	4.72				5.00		94.3	70-130			
Ethyl Acetate	3.89				5.00		77.8	70-130			
Ethylbenzene	4.39				5.00		87.8	70-130			
4-Ethyltoluene	4.35				5.00		87.0	70-130			
Heptane	3.83				5.00		76.6	70-130			
Hexachlorobutadiene	3.61				5.00		72.1	70-130			
Hexane	4.84				5.00		96.7	70-130			
2-Hexanone (MBK)	3.59				5.00		71.8	70-130			
Isopropanol	3.18				5.00		63.5	* 70-130			L-0
Methyl tert-Butyl Ether (MTBE)	5.21				5.00		104	70-130			
Methylene Chloride	4.51				5.00		90.1	70-130			
4-Methyl-2-pentanone (MIBK)	3.58				5.00		71.6	70-130			
Naphthalene	3.21				5.00		64.2	* 70-130			Z-0
Propene	3.83				5.00		76.6	70-130			
Styrene	4.39				5.00		87.7	70-130			

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QUALITY CONTROL
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Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B285796 - TO-15 Prep

LCS (B285796-BS1)					Prepared & Analyzed: 07/12/21					
1,1,2,2-Tetrachloroethane	3.88				5.00		77.6	70-130		
Tetrachloroethylene	4.85				5.00		97.0	70-130		
Tetrahydrofuran	4.74				5.00		94.8	70-130		
Toluene	4.49				5.00		89.8	70-130		
1,2,4-Trichlorobenzene	3.50				5.00		70.0	70-130		
1,1,1-Trichloroethane	4.24				5.00		84.8	70-130		
1,1,2-Trichloroethane	4.43				5.00		88.5	70-130		
Trichloroethylene	4.41				5.00		88.1	70-130		
Trichlorofluoromethane (Freon 11)	5.43				5.00		109	70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.80				5.00		116	70-130		
1,2,4-Trimethylbenzene	4.06				5.00		81.3	70-130		
1,3,5-Trimethylbenzene	4.19				5.00		83.7	70-130		
Vinyl Acetate	4.86				5.00		97.3	70-130		V-05
Vinyl Chloride	4.69				5.00		93.7	70-130		
m&p-Xylene	8.80				10.0		88.0	70-130		
o-Xylene	4.31				5.00		86.3	70-130		
Surrogate: 4-Bromofluorobenzene (1)	8.55				8.00		107	70-130		

Batch B285818 - TO-15 Prep

Blank (B285818-BLK1)					Prepared & Analyzed: 07/12/21					
Acetone	ND	0.80								
Benzene	ND	0.020								
Benzyl chloride	ND	0.020								
Bromodichloromethane	ND	0.020								
Bromoform	ND	0.020								
Bromomethane	ND	0.020								
1,3-Butadiene	ND	0.020								
2-Butanone (MEK)	ND	0.80								
Carbon Disulfide	ND	0.20								
Carbon Tetrachloride	ND	0.020								
Chlorobenzene	ND	0.020								
Chloroethane	ND	0.020								
Chloroform	ND	0.020								
Chloromethane	ND	0.040								
Cyclohexane	ND	0.020								
Dibromochloromethane	ND	0.020								
1,2-Dibromoethane (EDB)	ND	0.020								
1,2-Dichlorobenzene	ND	0.020								
1,3-Dichlorobenzene	ND	0.020								
1,4-Dichlorobenzene	ND	0.020								
Dichlorodifluoromethane (Freon 12)	ND	0.020								
1,1-Dichloroethane	ND	0.020								
1,2-Dichloroethane	ND	0.020								
1,1-Dichloroethylene	ND	0.020								
cis-1,2-Dichloroethylene	ND	0.020								

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QUALITY CONTROL
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Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B285818 - TO-15 Prep											
Blank (B285818-BLK1)					Prepared & Analyzed: 07/12/21						
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									Z-01
Propene	ND	0.80									
Styrene	ND	0.020									
1,1,2,2-Tetrachloroethane	ND	0.020									
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.20									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									V-34, Z-01
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.080									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									V-05
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	7.16				8.00		89.4	70-130			

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QUALITY CONTROL
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Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B285818 - TO-15 Prep											
LCS (B285818-BS1)					Prepared & Analyzed: 07/12/21						
Acetone	4.47				5.00		89.5	70-130			
Benzene	4.37				5.00		87.4	70-130			
Benzyl chloride	5.01				5.00		100	70-130			
Bromodichloromethane	4.81				5.00		96.2	70-130			
Bromoform	4.86				5.00		97.2	70-130			
Bromomethane	3.65				5.00		73.0	70-130			
1,3-Butadiene	3.51				5.00		70.3	70-130			
2-Butanone (MEK)	4.06				5.00		81.2	70-130			
Carbon Disulfide	4.35				5.00		86.9	70-130			
Carbon Tetrachloride	4.44				5.00		88.8	70-130			
Chlorobenzene	4.29				5.00		85.9	70-130			
Chloroethane	3.79				5.00		75.8	70-130			
Chloroform	4.06				5.00		81.1	70-130			
Chloromethane	3.98				5.00		79.5	70-130			
Cyclohexane	4.10				5.00		81.9	70-130			
Dibromochloromethane	4.64				5.00		92.8	70-130			
1,2-Dibromoethane (EDB)	4.63				5.00		92.5	70-130			
1,2-Dichlorobenzene	4.78				5.00		95.6	70-130			
1,3-Dichlorobenzene	4.82				5.00		96.3	70-130			
1,4-Dichlorobenzene	4.70				5.00		94.1	70-130			
Dichlorodifluoromethane (Freon 12)	3.86				5.00		77.3	70-130			
1,1-Dichloroethane	4.05				5.00		81.0	70-130			
1,2-Dichloroethane	4.07				5.00		81.4	70-130			
1,1-Dichloroethylene	4.41				5.00		88.1	70-130			
cis-1,2-Dichloroethylene	3.92				5.00		78.4	70-130			
trans-1,2-Dichloroethylene	3.97				5.00		79.4	70-130			
1,2-Dichloropropane	4.46				5.00		89.1	70-130			
cis-1,3-Dichloropropene	4.20				5.00		84.0	70-130			
trans-1,3-Dichloropropene	4.61				5.00		92.2	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	3.62				5.00		72.4	70-130			
1,4-Dioxane	4.49				5.00		89.8	70-130			
Ethanol	4.79				5.00		95.7	70-130			
Ethyl Acetate	3.77				5.00		75.5	70-130			
Ethylbenzene	4.32				5.00		86.5	70-130			
4-Ethyltoluene	4.36				5.00		87.3	70-130			
Heptane	4.58				5.00		91.7	70-130			
Hexachlorobutadiene	4.18				5.00		83.5	70-130			
Hexane	4.33				5.00		86.5	70-130			
2-Hexanone (MBK)	5.50				5.00		110	70-130			
Isopropanol	3.80				5.00		76.0	70-130			
Methyl tert-Butyl Ether (MTBE)	3.60				5.00		72.1	70-130			
Methylene Chloride	4.78				5.00		95.7	70-130			
4-Methyl-2-pentanone (MIBK)	4.90				5.00		98.0	70-130			
Naphthalene	2.80				5.00		56.1	* 70-130			Z-01
Propene	3.76				5.00		75.3	70-130			
Styrene	4.33				5.00		86.6	70-130			

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Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B285818 - TO-15 Prep

LCS (B285818-BS1)					Prepared & Analyzed: 07/12/21					
1,1,2,2-Tetrachloroethane	4.93				5.00		98.6	70-130		
Tetrachloroethylene	4.36				5.00		87.3	70-130		
Tetrahydrofuran	4.03				5.00		80.6	70-130		
Toluene	4.26				5.00		85.2	70-130		
1,2,4-Trichlorobenzene	3.12				5.00		62.5 *	70-130		Z-01, V-34
1,1,1-Trichloroethane	4.34				5.00		86.8	70-130		
1,1,2-Trichloroethane	4.47				5.00		89.3	70-130		
Trichloroethylene	4.70				5.00		94.1	70-130		
Trichlorofluoromethane (Freon 11)	3.94				5.00		78.9	70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.18				5.00		83.6	70-130		
1,2,4-Trimethylbenzene	4.41				5.00		88.3	70-130		
1,3,5-Trimethylbenzene	4.56				5.00		91.2	70-130		
Vinyl Acetate	4.22				5.00		84.4	70-130		V-05
Vinyl Chloride	3.85				5.00		76.9	70-130		
m&p-Xylene	9.50				10.0		95.0	70-130		
o-Xylene	4.49				5.00		89.9	70-130		
Surrogate: 4-Bromofluorobenzene (1)	7.75				8.00		96.9	70-130		

Batch B285852 - TO-15 Prep

Blank (B285852-BLK1)			Prepared: 07/12/21 Analyzed: 07/13/21							
Acetone	ND	0.80								
Benzene	ND	0.020								
Benzyl chloride	ND	0.020								
Bromodichloromethane	ND	0.020								
Bromoform	ND	0.020								
Bromomethane	ND	0.020								
1,3-Butadiene	ND	0.020								
2-Butanone (MEK)	ND	0.80								
Carbon Disulfide	ND	0.20								
Carbon Tetrachloride	ND	0.020								
Chlorobenzene	ND	0.020								
Chloroethane	ND	0.020								
Chloroform	ND	0.020								
Chloromethane	ND	0.040								
Cyclohexane	ND	0.020								
Dibromochloromethane	ND	0.020								
1,2-Dibromoethane (EDB)	ND	0.020								
1,2-Dichlorobenzene	ND	0.020								
1,3-Dichlorobenzene	ND	0.020								
1,4-Dichlorobenzene	ND	0.020								
Dichlorodifluoromethane (Freon 12)	ND	0.020								
1,1-Dichloroethane	ND	0.020								
1,2-Dichloroethane	ND	0.020								
1,1-Dichloroethylene	ND	0.020								
cis-1,2-Dichloroethylene	ND	0.020								

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B285852 - TO-15 Prep											
Blank (B285852-BLK1)					Prepared: 07/12/21 Analyzed: 07/13/21						
trans-1,2-Dichloroethylene	ND	0.020									
1,2-Dichloropropane	ND	0.020									
cis-1,3-Dichloropropene	ND	0.020									
trans-1,3-Dichloropropene	ND	0.020									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020									
1,4-Dioxane	ND	0.20									
Ethanol	ND	0.80									
Ethyl Acetate	ND	0.20									
Ethylbenzene	ND	0.020									
4-Ethyltoluene	ND	0.020									
Heptane	ND	0.020									
Hexachlorobutadiene	ND	0.020									
Hexane	ND	0.80									
2-Hexanone (MBK)	ND	0.020									
Isopropanol	ND	0.80									
Methyl tert-Butyl Ether (MTBE)	ND	0.020									
Methylene Chloride	ND	0.20									
4-Methyl-2-pentanone (MIBK)	ND	0.020									
Naphthalene	ND	0.020									Z-01
Propene	ND	0.80									
Styrene	ND	0.020									
1,1,2,2-Tetrachloroethane	ND	0.020									
Tetrachloroethylene	ND	0.020									
Tetrahydrofuran	ND	0.20									
Toluene	ND	0.020									
1,2,4-Trichlorobenzene	ND	0.020									V-05, V-34, Z-01
1,1,1-Trichloroethane	ND	0.020									
1,1,2-Trichloroethane	ND	0.020									
Trichloroethylene	ND	0.020									
Trichlorofluoromethane (Freon 11)	ND	0.080									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080									
1,2,4-Trimethylbenzene	ND	0.020									
1,3,5-Trimethylbenzene	ND	0.020									
Vinyl Acetate	ND	0.40									V-05
Vinyl Chloride	ND	0.020									
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	7.15				8.00		89.4	70-130			

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B285852 - TO-15 Prep											
LCS (B285852-BS1)					Prepared: 07/12/21 Analyzed: 07/13/21						
Acetone	4.79				5.00		95.8	70-130			
Benzene	4.64				5.00		92.8	70-130			
Benzyl chloride	5.21				5.00		104	70-130			
Bromodichloromethane	5.13				5.00		103	70-130			
Bromoform	5.02				5.00		100	70-130			
Bromomethane	3.85				5.00		77.0	70-130			
1,3-Butadiene	3.78				5.00		75.5	70-130			
2-Butanone (MEK)	4.57				5.00		91.5	70-130			
Carbon Disulfide	4.70				5.00		94.0	70-130			
Carbon Tetrachloride	4.77				5.00		95.4	70-130			
Chlorobenzene	4.53				5.00		90.6	70-130			
Chloroethane	4.02				5.00		80.4	70-130			
Chloroform	4.31				5.00		86.1	70-130			
Chloromethane	4.22				5.00		84.5	70-130			
Cyclohexane	4.32				5.00		86.4	70-130			
Dibromochloromethane	4.81				5.00		96.2	70-130			
1,2-Dibromoethane (EDB)	4.86				5.00		97.1	70-130			
1,2-Dichlorobenzene	4.86				5.00		97.3	70-130			
1,3-Dichlorobenzene	5.09				5.00		102	70-130			
1,4-Dichlorobenzene	4.80				5.00		95.9	70-130			
Dichlorodifluoromethane (Freon 12)	4.06				5.00		81.1	70-130			
1,1-Dichloroethane	4.20				5.00		84.0	70-130			
1,2-Dichloroethane	4.34				5.00		86.8	70-130			
1,1-Dichloroethylene	4.77				5.00		95.4	70-130			
cis-1,2-Dichloroethylene	4.14				5.00		82.8	70-130			
trans-1,2-Dichloroethylene	4.13				5.00		82.7	70-130			
1,2-Dichloropropane	4.70				5.00		94.0	70-130			
cis-1,3-Dichloropropene	4.38				5.00		87.7	70-130			
trans-1,3-Dichloropropene	4.76				5.00		95.2	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	3.78				5.00		75.7	70-130			
1,4-Dioxane	4.71				5.00		94.1	70-130			
Ethanol	5.09				5.00		102	70-130			
Ethyl Acetate	3.98				5.00		79.7	70-130			
Ethylbenzene	4.44				5.00		88.8	70-130			
4-Ethyltoluene	4.46				5.00		89.2	70-130			
Heptane	4.91				5.00		98.1	70-130			
Hexachlorobutadiene	4.26				5.00		85.1	70-130			
Hexane	4.55				5.00		91.0	70-130			
2-Hexanone (MBK)	5.61				5.00		112	70-130			
Isopropanol	4.34				5.00		86.8	70-130			
Methyl tert-Butyl Ether (MTBE)	3.66				5.00		73.2	70-130			
Methylene Chloride	5.29				5.00		106	70-130			
4-Methyl-2-pentanone (MIBK)	4.99				5.00		99.8	70-130			
Naphthalene	2.86				5.00		57.3	* 70-130			Z-01
Propene	3.71				5.00		74.3	70-130			
Styrene	4.44				5.00		88.8	70-130			

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B285852 - TO-15 Prep											
LCS (B285852-BS1)					Prepared: 07/12/21 Analyzed: 07/13/21						
1,1,2,2-Tetrachloroethane	5.20				5.00		104	70-130			
Tetrachloroethylene	4.50				5.00		90.0	70-130			
Tetrahydrofuran	4.07				5.00		81.4	70-130			
Toluene	4.40				5.00		88.0	70-130			
1,2,4-Trichlorobenzene	3.24				5.00		64.8	* 70-130			V-05, Z-01, V-34
1,1,1-Trichloroethane	4.65				5.00		93.0	70-130			
1,1,2-Trichloroethane	4.73				5.00		94.7	70-130			
Trichloroethylene	4.92				5.00		98.3	70-130			
Trichlorofluoromethane (Freon 11)	4.11				5.00		82.3	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.41				5.00		88.2	70-130			
1,2,4-Trimethylbenzene	4.52				5.00		90.3	70-130			
1,3,5-Trimethylbenzene	4.75				5.00		94.9	70-130			
Vinyl Acetate	4.30				5.00		86.0	70-130			V-05
Vinyl Chloride	4.12				5.00		82.4	70-130			
m&p-Xylene	9.73				10.0		97.3	70-130			
o-Xylene	4.72				5.00		94.4	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.76				8.00		97.0	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
Z-01	Compound fails the method requirement of 70-130% recovery for the LCS. Is classified by the lab as a difficult compound and passes the in house limits of 50-150%.

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S052381-ICV1)			Lab File ID: J2025821.D			Analyzed: 09/14/20 23:22			
Bromochloromethane (1)	159501	2.873	155833	2.873	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	756714	3.475	745760	3.475	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	686740	5.06	671608	5.057	102	60 - 140	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S060684-ICV1)			Lab File ID: G2116617.D			Analyzed: 06/15/21 18:35			
Bromochloromethane (1)	1615020	8.509	1628425	8.509	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3534374	10.283	3489086	10.283	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3374347	14.654	3303707	14.654	102	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S061421-CCV1)			Lab File ID: G21A190004.D			Analyzed: 07/09/21 10:56			
Bromochloromethane (1)	1435697	8.509	1628425	8.509	88	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3512968	10.283	3489086	10.283	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3296668	14.654	3303707	14.654	100	60 - 140	0.0000	+/-0.50	
LCS (B285745-BS1)			Lab File ID: G21A190005.D			Analyzed: 07/09/21 11:38			
Bromochloromethane (1)	1401052	8.509	1435697	8.509	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3461643	10.283	3512968	10.283	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3276142	14.654	3296668	14.654	99	60 - 140	0.0000	+/-0.50	
Blank (B285745-BLK1)			Lab File ID: G21A190008.D			Analyzed: 07/09/21 13:53			
Bromochloromethane (1)	1347980	8.509	1435697	8.509	94	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3220037	10.283	3512968	10.283	92	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3054267	14.654	3296668	14.654	93	60 - 140	0.0000	+/-0.50	
05P-SG-01 (21G0077-01)			Lab File ID: G21A190012.D			Analyzed: 07/09/21 16:42			
Bromochloromethane (1)	1335031	8.509	1435697	8.509	93	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3220831	10.283	3512968	10.283	92	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3085938	14.654	3296668	14.654	94	60 - 140	0.0000	+/-0.50	
05P-SG-02 (21G0077-02)			Lab File ID: G21A190014.D			Analyzed: 07/09/21 18:02			
Bromochloromethane (1)	1330227	8.509	1435697	8.509	93	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3211783	10.283	3512968	10.283	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3073271	14.654	3296668	14.654	93	60 - 140	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Duplicate (B285745-DUP1)									
Lab File ID: G21A190015.D					Analyzed: 07/09/21 18:44				
Bromochloromethane (1)	1331999	8.509	1435697	8.509	93	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3184544	10.283	3512968	10.283	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3056840	14.654	3296668	14.654	93	60 - 140	0.0000	+/-0.50	
05P-SG-03 (21G0077-03)									
Lab File ID: G21A190017.D					Analyzed: 07/09/21 20:05				
Bromochloromethane (1)	1327049	8.509	1435697	8.509	92	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3160140	10.283	3512968	10.283	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3039485	14.654	3296668	14.654	92	60 - 140	0.0000	+/-0.50	
05P-SG-04 (21G0077-04)									
Lab File ID: G21A190019.D					Analyzed: 07/09/21 21:25				
Bromochloromethane (1)	1316959	8.503	1435697	8.509	92	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3180966	10.283	3512968	10.283	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3062889	14.654	3296668	14.654	93	60 - 140	0.0000	+/-0.50	
05P-SG-05 (21G0077-05)									
Lab File ID: G21A190021.D					Analyzed: 07/09/21 22:51				
Bromochloromethane (1)	1307716	8.509	1435697	8.509	91	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3167252	10.283	3512968	10.283	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3039071	14.654	3296668	14.654	92	60 - 140	0.0000	+/-0.50	
05P-SG-05 (21G0077-05RE1)									
Lab File ID: G21A190022.D					Analyzed: 07/09/21 23:32				
Bromochloromethane (1)	1288725	8.509	1435697	8.509	90	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3106582	10.283	3512968	10.283	88	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2954982	14.654	3296668	14.654	90	60 - 140	0.0000	+/-0.50	
05P-SG-05-FD (21G0077-06)									
Lab File ID: G21A190023.D					Analyzed: 07/10/21 00:16				
Bromochloromethane (1)	1315664	8.509	1435697	8.509	92	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3195283	10.283	3512968	10.283	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3051269	14.654	3296668	14.654	93	60 - 140	0.0000	+/-0.50	
05P-SG-05-FD (21G0077-06RE1)									
Lab File ID: G21A190024.D					Analyzed: 07/10/21 00:57				
Bromochloromethane (1)	1327606	8.509	1435697	8.509	92	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3165853	10.283	3512968	10.283	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3015995	14.654	3296668	14.654	91	60 - 140	0.0000	+/-0.50	
05P-SG-06 (21G0077-07)									
Lab File ID: G21A190025.D					Analyzed: 07/10/21 01:41				
Bromochloromethane (1)	1337471	8.509	1435697	8.509	93	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3200710	10.283	3512968	10.283	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3045260	14.654	3296668	14.654	92	60 - 140	0.0000	+/-0.50	
65P-SG-09 (21G0077-08)									
Lab File ID: G21A190027.D					Analyzed: 07/10/21 03:06				
Bromochloromethane (1)	1293150	8.509	1435697	8.509	90	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3167058	10.283	3512968	10.283	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3016747	14.654	3296668	14.654	92	60 - 140	0.0000	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
65P-SG-09 (21G0077-08RE1) Lab File ID: G21A190028.D Analyzed: 07/10/21 03:47									
Bromochloromethane (1)	1304708	8.509	1435697	8.509	91	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3137135	10.283	3512968	10.283	89	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2972607	14.654	3296668	14.654	90	60 - 140	0.0000	+/-0.50	
65P-SG-08 (21G0077-09) Lab File ID: G21A190029.D Analyzed: 07/10/21 04:31									
Bromochloromethane (1)	1298894	8.509	1435697	8.509	90	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3144846	10.283	3512968	10.283	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2972601	14.654	3296668	14.654	90	60 - 140	0.0000	+/-0.50	
65P-SG-08 (21G0077-09RE1) Lab File ID: G21A190030.D Analyzed: 07/10/21 05:12									
Bromochloromethane (1)	1300994	8.509	1435697	8.509	91	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3104414	10.283	3512968	10.283	88	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2964531	14.654	3296668	14.654	90	60 - 140	0.0000	+/-0.50	
65P-SG-07 (21G0077-10) Lab File ID: G21A190031.D Analyzed: 07/10/21 05:56									
Bromochloromethane (1)	1260246	8.509	1435697	8.509	88	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3123839	10.283	3512968	10.283	89	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3001888	14.654	3296668	14.654	91	60 - 140	0.0000	+/-0.50	
65P-SG-06 (21G0077-11) Lab File ID: G21A190033.D Analyzed: 07/10/21 07:21									
Bromochloromethane (1)	1278599	8.503	1435697	8.509	89	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3076994	10.277	3512968	10.283	88	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2922269	14.654	3296668	14.654	89	60 - 140	0.0000	+/-0.50	
100R-SG-01 (21G0077-12) Lab File ID: G21A190036.D Analyzed: 07/10/21 09:27									
Bromochloromethane (1)	1233122	8.509	1435697	8.509	86	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3050479	10.283	3512968	10.283	87	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2942610	14.654	3296668	14.654	89	60 - 140	0.0000	+/-0.50	
100R-SG-02 (21G0077-13) Lab File ID: G21A190038.D Analyzed: 07/10/21 10:52									
Bromochloromethane (1)	1469772	8.503	1435697	8.509	102	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3421611	10.277	3512968	10.283	97	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	3185138	14.648	3296668	14.654	97	60 - 140	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S061443-CCV1) Lab File ID: G21A193005.D Analyzed: 07/12/21 10:41									
Bromochloromethane (1)	1531888	8.503	1628425	8.509	94	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3988287	10.277	3489086	10.283	114	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	3779775	14.648	3303707	14.654	114	60 - 140	-0.0060	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B285796-BS1) Lab File ID: G21A193006.D Analyzed: 07/12/21 11:21									
Bromochloromethane (1)	1526303	8.503	1531888	8.503	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3958181	10.283	3988287	10.277	99	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	3724736	14.648	3779775	14.648	99	60 - 140	0.0000	+/-0.50	
Blank (B285796-BLK1) Lab File ID: G21A193011.D Analyzed: 07/12/21 14:52									
Bromochloromethane (1)	1341963	8.509	1531888	8.503	88	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	3271750	10.277	3988287	10.277	82	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3060460	14.648	3779775	14.648	81	60 - 140	0.0000	+/-0.50	
100R-SG-02 (21G0077-13RE1) Lab File ID: G21A193024.D Analyzed: 07/13/21 00:44									
Bromochloromethane (1)	1217481	8.509	1531888	8.503	79	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2995758	10.283	3988287	10.277	75	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2855622	14.654	3779775	14.648	76	60 - 140	0.0060	+/-0.50	
100R-SG-03 (21G0077-14) Lab File ID: G21A193025.D Analyzed: 07/13/21 01:27									
Bromochloromethane (1)	1359438	8.503	1531888	8.503	89	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3439082	10.283	3988287	10.277	86	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	3425809	14.648	3779775	14.648	91	60 - 140	0.0000	+/-0.50	
100R-SG-03 (21G0077-14RE1) Lab File ID: G21A193026.D Analyzed: 07/13/21 02:07									
Bromochloromethane (1)	1446244	8.503	1531888	8.503	94	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3715740	10.277	3988287	10.277	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3555676	14.648	3779775	14.648	94	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S061451-CCV1) Lab File ID: J21A193004.D Analyzed: 07/12/21 09:07									
Bromochloromethane (1)	161962	2.869	155833	2.873	104	60 - 140	-0.0040	+/-0.50	
1,4-Difluorobenzene (1)	660244	3.471	745760	3.475	89	60 - 140	-0.0040	+/-0.50	
Chlorobenzene-d5 (1)	581081	5.056	671608	5.057	87	60 - 140	-0.0010	+/-0.50	
LCS (B285818-BS1) Lab File ID: J21A193007.D Analyzed: 07/12/21 10:21									
Bromochloromethane (1)	159658	2.866	161962	2.869	99	60 - 140	-0.0030	+/-0.50	
1,4-Difluorobenzene (1)	647187	3.472	660244	3.471	98	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	574775	5.057	581081	5.056	99	60 - 140	0.0010	+/-0.50	
Blank (B285818-BLK1) Lab File ID: J21A193009.D Analyzed: 07/12/21 11:27									
Bromochloromethane (1)	157334	2.853	161962	2.869	97	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	588081	3.462	660244	3.471	89	60 - 140	-0.0090	+/-0.50	
Chlorobenzene-d5 (1)	527870	5.054	581081	5.056	91	60 - 140	-0.0020	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
100R-SG-04 (21G0077-15) Lab File ID: J21A193028.D Analyzed: 07/13/21 08:17									
Bromochloromethane (1)	156166	2.853	161962	2.869	96	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	582626	3.462	660244	3.471	88	60 - 140	-0.0090	+/-0.50	
Chlorobenzene-d5 (1)	532348	5.053	581081	5.056	92	60 - 140	-0.0030	+/-0.50	
100R-SG-04 (21G0077-15RE1) Lab File ID: J21A193029.D Analyzed: 07/13/21 08:42									
Bromochloromethane (1)	163869	2.853	161962	2.869	101	60 - 140	-0.0160	+/-0.50	
1,4-Difluorobenzene (1)	623898	3.465	660244	3.471	94	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	567219	5.053	581081	5.056	98	60 - 140	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S061469-CCV1) Lab File ID: J21A194005.D Analyzed: 07/13/21 12:57									
Bromochloromethane (1)	156120	2.867	155833	2.873	100	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	629520	3.472	745760	3.475	84	60 - 140	-0.0030	+/-0.50	
Chlorobenzene-d5 (1)	556369	5.057	671608	5.057	83	60 - 140	0.0000	+/-0.50	
LCS (B285852-BS1) Lab File ID: J21A194006.D Analyzed: 07/13/21 13:23									
Bromochloromethane (1)	152542	2.869	156120	2.867	98	60 - 140	0.0020	+/-0.50	
1,4-Difluorobenzene (1)	617046	3.471	629520	3.472	98	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	551043	5.056	556369	5.057	99	60 - 140	-0.0010	+/-0.50	
Blank (B285852-BLK1) Lab File ID: J21A194009.D Analyzed: 07/13/21 14:50									
Bromochloromethane (1)	148742	2.853	156120	2.867	95	60 - 140	-0.0140	+/-0.50	
1,4-Difluorobenzene (1)	541418	3.465	629520	3.472	86	60 - 140	-0.0070	+/-0.50	
Chlorobenzene-d5 (1)	495874	5.054	556369	5.057	89	60 - 140	-0.0030	+/-0.50	
100R-SG-09 (21G0077-16) Lab File ID: J21A194010.D Analyzed: 07/13/21 15:17									
Bromochloromethane (1)	154739	2.857	156120	2.867	99	60 - 140	-0.0100	+/-0.50	
1,4-Difluorobenzene (1)	579958	3.465	629520	3.472	92	60 - 140	-0.0070	+/-0.50	
Chlorobenzene-d5 (1)	526491	5.05	556369	5.057	95	60 - 140	-0.0070	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061421-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.22	1.100768	0.9288556		-15.6	30
Benzene	A	5.00	4.34	0.9286277	0.8066838		-13.1	30
Benzyl chloride	A	5.00	3.88	1.284358	0.9966228		-22.4	30
Bromodichloromethane	A	5.00	4.40	0.66525	0.5860212		-11.9	30
Bromoform	A	5.00	4.76	0.543713	0.5178106		-4.8	30
Bromomethane	A	5.00	5.04	0.4488024	0.4527696		0.9	30
1,3-Butadiene	A	5.00	4.35	0.5084466	0.4424845		-13.0	30
2-Butanone (MEK)	A	5.00	4.16	1.583321	1.317141		-16.8	30
Carbon Disulfide	A	5.00	5.06	1.822428	1.846057		1.3	30
Carbon Tetrachloride	A	5.00	4.85	0.5210862	0.5054575		-3.0	30
Chlorobenzene	A	5.00	4.48	0.8294072	0.7433309		-10.4	30
Chloroethane	A	5.00	4.68	0.2847474	0.2662746		-6.5	30
Chloroform	A	5.00	5.20	1.293296	1.345802		4.1	30
Chloromethane	A	5.00	4.35	0.6087657	0.5292671		-13.1	30
Cyclohexane	A	5.00	4.00	0.4065816	0.3255558		-19.9	30
Dibromochloromethane	A	5.00	4.70	0.6043771	0.5680844		-6.0	30
1,2-Dibromoethane (EDB)	A	5.00	4.50	0.5694815	0.5126878		-10.0	30
1,2-Dichlorobenzene	A	5.00	4.24	0.7373873	0.6253393		-15.2	30
1,3-Dichlorobenzene	A	5.00	4.39	0.7649376	0.6720619		-12.1	30
1,4-Dichlorobenzene	A	5.00	4.35	0.7861301	0.6838226		-13.0	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.38	1.370161	1.473778		7.6	30
1,1-Dichloroethane	A	5.00	4.81	1.229252	1.183504		-3.7	30
1,2-Dichloroethane	A	5.00	4.93	0.8867374	0.8742714		-1.4	30
1,1-Dichloroethylene	A	5.00	4.83	1.055393	1.020065		-3.3	30
cis-1,2-Dichloroethylene	A	5.00	4.78	0.913476	0.8727179		-4.5	30
trans-1,2-Dichloroethylene	A	5.00	4.77	0.9667466	0.9214602		-4.7	30
1,2-Dichloropropane	A	5.00	4.06	0.3779462	0.3068598		-18.8	30
cis-1,3-Dichloropropene	A	5.00	4.15	0.545108	0.4528775		-16.9	30
trans-1,3-Dichloropropene	A	5.00	4.17	0.4946685	0.4128999		-16.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.01	1.300081	1.301645		0.1	30
1,4-Dioxane	A	5.00	4.20	0.1939585	0.1631327		-15.9	30
Ethanol	A	5.00	3.95	0.1615268	0.1277428		-20.9	30
Ethyl Acetate	A	5.00	4.60	0.2813992	0.2591945		-7.9	30
Ethylbenzene	A	5.00	4.43	1.452729	1.287126		-11.4	30
4-Ethyltoluene	A	5.00	4.25	1.529344	1.300502		-15.0	30
Heptane	A	5.00	3.86	0.3345449	0.2584627		-22.7	30
Hexachlorobutadiene	A	5.00	4.55	0.4744277	0.4319498		-9.0	30
Hexane	A	5.00	4.70	0.9035931	0.7850024		-6.0	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061421-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	3.69	0.8796353	0.6498372		-26.1	30
Isopropanol	A	5.00	4.14	1.200546	0.9952473		-17.1	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.02	1.718852	1.726851		0.5	30
Methylene Chloride	A	5.00	4.40	0.8569294	0.7535217		-12.1	30
4-Methyl-2-pentanone (MIBK)	A	5.00	3.70	0.9126875	0.6754503		-26.0	30
Naphthalene	A	5.00	4.29	1.203636	1.031802		-14.3	30
Propene	A	5.00	4.05	0.6970128	0.5649348		-18.9	30
Styrene	A	5.00	4.28	0.8364641	0.7160015		-14.4	30
1,1,2,2-Tetrachloroethane	A	5.00	3.89	0.9431005	0.7336052		-22.2	30
Tetrachloroethylene	A	5.00	4.99	0.4267736	0.4259884		-0.2	30
Tetrahydrofuran	A	5.00	4.62	0.3101159	0.2863245		-7.7	30
Toluene	A	5.00	4.46	1.108131	0.9895703		-10.7	30
1,2,4-Trichlorobenzene	A	5.00	4.18	0.5285539	0.4415479		-16.5	30
1,1,1-Trichloroethane	A	5.00	4.67	0.5613942	0.5244764		-6.6	30
1,1,2-Trichloroethane	A	5.00	4.40	0.3796355	0.3339571		-12.0	30
Trichloroethylene	A	5.00	4.53	0.3794708	0.3437253		-9.4	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.27	1.126897	1.188355		5.5	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.46	1.079513	1.177995		9.1	30
1,2,4-Trimethylbenzene	A	5.00	4.17	1.283564	1.070639		-16.6	30
1,3,5-Trimethylbenzene	A	5.00	4.30	1.278596	1.100296		-13.9	30
Vinyl Acetate	A	5.00	3.45	1.787666	1.232291		-31.1	30 *
Vinyl Chloride	A	5.00	4.43	0.634537	0.5619704		-11.4	30
m&p-Xylene	A	10.0	8.82	1.117468	0.986181		-11.7	30
o-Xylene	A	5.00	4.30	1.163653	0.9997527		-14.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061443-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	3.72	1.100768	0.8194019		-25.6	30
Benzene	A	5.00	4.19	0.9286277	0.7779713		-16.2	30
Benzyl chloride	A	5.00	3.87	1.284358	0.9937798		-22.6	30
Bromodichloromethane	A	5.00	4.16	0.66525	0.5529187		-16.9	30
Bromoform	A	5.00	4.64	0.543713	0.5051378		-7.1	30
Bromomethane	A	5.00	5.18	0.4488024	0.4652737		3.7	30
1,3-Butadiene	A	5.00	4.13	0.5084466	0.4202887		-17.3	30
2-Butanone (MEK)	A	5.00	4.19	1.583321	1.327739		-16.1	30
Carbon Disulfide	A	5.00	5.15	1.822428	1.878103		3.1	30
Carbon Tetrachloride	A	5.00	4.38	0.5210862	0.4568245		-12.3	30
Chlorobenzene	A	5.00	4.48	0.8294072	0.7429047		-10.4	30
Chloroethane	A	5.00	4.46	0.2847474	0.2539789		-10.8	30
Chloroform	A	5.00	5.15	1.293296	1.332272		3.0	30
Chloromethane	A	5.00	4.30	0.6087657	0.5235589		-14.0	30
Cyclohexane	A	5.00	4.00	0.4065816	0.3250691		-20.0	30
Dibromochloromethane	A	5.00	4.54	0.6043771	0.5494126		-9.1	30
1,2-Dibromoethane (EDB)	A	5.00	4.42	0.5694815	0.5029916		-11.7	30
1,2-Dichlorobenzene	A	5.00	4.21	0.7373873	0.6204073		-15.9	30
1,3-Dichlorobenzene	A	5.00	4.41	0.7649376	0.6753397		-11.7	30
1,4-Dichlorobenzene	A	5.00	4.33	0.7861301	0.6807576		-13.4	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.25	1.370161	1.439533		5.1	30
1,1-Dichloroethane	A	5.00	4.82	1.229252	1.186071		-3.5	30
1,2-Dichloroethane	A	5.00	4.79	0.8867374	0.8494188		-4.2	30
1,1-Dichloroethylene	A	5.00	4.77	1.055393	1.00777		-4.5	30
cis-1,2-Dichloroethylene	A	5.00	4.82	0.913476	0.8807934		-3.6	30
trans-1,2-Dichloroethylene	A	5.00	4.82	0.9667466	0.931736		-3.6	30
1,2-Dichloropropane	A	5.00	3.93	0.3779462	0.2967333		-21.5	30
cis-1,3-Dichloropropene	A	5.00	4.14	0.545108	0.4508867		-17.3	30
trans-1,3-Dichloropropene	A	5.00	4.09	0.4946685	0.4044888		-18.2	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.21	1.300081	1.355214		4.2	30
1,4-Dioxane	A	5.00	4.22	0.1939585	0.1638514		-15.5	30
Ethanol	A	5.00	3.61	0.1615268	0.1164983		-27.9	30
Ethyl Acetate	A	5.00	4.69	0.2813992	0.2641958		-6.1	30
Ethylbenzene	A	5.00	4.40	1.452729	1.279681		-11.9	30
4-Ethyltoluene	A	5.00	4.24	1.529344	1.29551		-15.3	30
Heptane	A	5.00	3.78	0.3345449	0.2530859		-24.3	30
Hexachlorobutadiene	A	5.00	4.15	0.4744277	0.3941775		-16.9	30
Hexane	A	5.00	4.63	0.9035931	0.7726581		-7.5	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061443-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	3.57	0.8796353	0.6278947		-28.6	30
Isopropanol	A	5.00	3.63	1.200546	0.8715499		-27.4	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.21	1.718852	1.791188		4.2	30
Methylene Chloride	A	5.00	4.33	0.8569294	0.7427624		-13.3	30
4-Methyl-2-pentanone (MIBK)	A	5.00	3.54	0.9126875	0.645582		-29.3	30
Naphthalene	A	5.00	4.11	1.203636	0.9887425		-17.9	30
Propene	A	5.00	3.75	0.6970128	0.5230555		-25.0	30
Styrene	A	5.00	4.34	0.8364641	0.725611		-13.3	30
1,1,2,2-Tetrachloroethane	A	5.00	3.88	0.9431005	0.7308249		-22.5	30
Tetrachloroethylene	A	5.00	4.84	0.4267736	0.4126768		-3.3	30
Tetrahydrofuran	A	5.00	4.84	0.3101159	0.3002308		-3.2	30
Toluene	A	5.00	4.44	1.108131	0.9842021		-11.2	30
1,2,4-Trichlorobenzene	A	5.00	3.97	0.5285539	0.4192305		-20.7	30
1,1,1-Trichloroethane	A	5.00	4.28	0.5613942	0.4805841		-14.4	30
1,1,2-Trichloroethane	A	5.00	4.28	0.3796355	0.3250958		-14.4	30
Trichloroethylene	A	5.00	4.38	0.3794708	0.3323147		-12.4	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.05	1.126897	1.137901		1.0	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.56	1.079513	1.199239		11.1	30
1,2,4-Trimethylbenzene	A	5.00	4.13	1.283564	1.059611		-17.4	30
1,3,5-Trimethylbenzene	A	5.00	4.27	1.278596	1.09169		-14.6	30
Vinyl Acetate	A	5.00	3.45	1.787666	1.234084		-31.0	30 *
Vinyl Chloride	A	5.00	4.34	0.634537	0.5509207		-13.2	30
m&p-Xylene	A	10.0	8.70	1.117468	0.9723332		-13.0	30
o-Xylene	A	5.00	4.25	1.163653	0.9884635		-15.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061451-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.97	0.9103154	0.90438		-0.7	30
Benzene	A	5.00	4.69	0.6606025	0.6198508		-6.2	30
Benzyl chloride	A	5.00	5.50	0.5965762	0.6564042		10.0	30
Bromodichloromethane	A	5.00	5.10	0.4537953	0.4629949		2.0	30
Bromoform	A	5.00	5.02	0.6600998	0.6629465		0.4	30
Bromomethane	A	5.00	3.88	1.001177	0.777901		-22.3	30
1,3-Butadiene	A	5.00	4.02	0.6246902	0.502587		-19.5	30
2-Butanone (MEK)	A	5.00	4.50	1.30749	1.176236		-10.0	30
Carbon Disulfide	A	5.00	4.63	2.466469	2.284961		-7.4	30
Carbon Tetrachloride	A	5.00	4.70	0.5064752	0.4761173		-6.0	30
Chlorobenzene	A	5.00	4.59	0.7751296	0.7116392		-8.2	30
Chloroethane	A	5.00	3.93	0.5001442	0.3932478		-21.4	30
Chloroform	A	5.00	4.26	2.018779	1.721619		-14.7	30
Chloromethane	A	5.00	4.32	0.6141491	0.5309789		-13.5	30
Cyclohexane	A	5.00	4.61	0.2849344	0.2626714		-7.8	30
Dibromochloromethane	A	5.00	4.92	0.6429615	0.6327545		-1.6	30
1,2-Dibromoethane (EDB)	A	5.00	4.97	0.4841019	0.4809299		-0.7	30
1,2-Dichlorobenzene	A	5.00	4.96	0.6846313	0.6787873		-0.9	30
1,3-Dichlorobenzene	A	5.00	5.04	0.7215992	0.7266347		0.7	30
1,4-Dichlorobenzene	A	5.00	4.97	0.7134896	0.709172		-0.6	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.10	2.507091	2.056364		-18.0	30
1,1-Dichloroethane	A	5.00	4.22	1.545303	1.304533		-15.6	30
1,2-Dichloroethane	A	5.00	4.40	1.058805	0.9324064		-11.9	30
1,1-Dichloroethylene	A	5.00	4.59	1.160287	1.064358		-8.3	30
cis-1,2-Dichloroethylene	A	5.00	4.26	1.114268	0.9504649		-14.7	30
trans-1,2-Dichloroethylene	A	5.00	4.26	1.201908	1.023055		-14.9	30
1,2-Dichloropropane	A	5.00	4.77	0.2231134	0.2130291		-4.5	30
cis-1,3-Dichloropropene	A	5.00	4.55	0.3628898	0.3303724		-9.0	30
trans-1,3-Dichloropropene	A	5.00	4.75	0.3055463	0.2902975		-5.0	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.06	2.650055	2.148978		-18.9	30
1,4-Dioxane	A	5.00	4.62	0.139387	0.1287136		-7.7	30
Ethanol	A	5.00	3.94	0.1702165	0.1341944		-21.2	30
Ethyl Acetate	A	5.00	5.10	0.2280188	0.2327262		2.1	30
Ethylbenzene	A	5.00	4.84	1.161395	1.123156		-3.3	30
4-Ethyltoluene	A	5.00	4.78	1.262817	1.206213		-4.5	30
Heptane	A	5.00	4.95	0.1688454	0.1672061		-1.0	30
Hexachlorobutadiene	A	5.00	4.56	0.6918294	0.6310363		-8.8	30
Hexane	L	5.00	4.56	0.6531603	0.5935219		-8.7	30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CONTINUING CALIBRATION CHECK

EPA TO-15

S061451-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.94	0.280065	0.3324535		18.7	30
Isopropanol	A	5.00	5.15	1.001981	1.032183		3.0	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.00	2.512535	2.009024		-20.0	30
Methylene Chloride	A	5.00	5.15	0.6621826	0.6820464		3.0	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.28	0.1531114	0.16155		5.5	30
Naphthalene	A	5.00	3.96	1.086932	0.8618557		-20.7	30
Propene	A	5.00	4.14	0.4641749	0.3847816		-17.1	30
Styrene	A	5.00	4.69	0.7056488	0.6612751		-6.3	30
1,1,2,2-Tetrachloroethane	A	5.00	5.10	0.638583	0.6509798		1.9	30
Tetrachloroethylene	A	5.00	4.61	0.5546794	0.5111879		-7.8	30
Tetrahydrofuran	A	5.00	4.53	0.7143044	0.6471148		-9.4	30
Toluene	A	5.00	4.67	0.9345011	0.8727899		-6.6	30
1,2,4-Trichlorobenzene	A	5.00	3.64	0.4260284	0.3105164		-27.1	30
1,1,1-Trichloroethane	A	5.00	4.79	0.4496133	0.4310164		-4.1	30
1,1,2-Trichloroethane	A	5.00	4.79	0.3281373	0.314286		-4.2	30
Trichloroethylene	A	5.00	5.02	0.2979469	0.2991694		0.4	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.10	2.536841	2.08114		-18.0	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.32	1.957735	1.691992		-13.6	30
1,2,4-Trimethylbenzene	A	5.00	4.78	1.026744	0.9817977		-4.4	30
1,3,5-Trimethylbenzene	A	5.00	4.99	1.080978	1.078106		-0.3	30
Vinyl Acetate	A	5.00	3.31	1.400965	0.9286425		-33.7	30 *
Vinyl Chloride	A	5.00	4.11	0.8554634	0.7030093		-17.8	30
m&p-Xylene	A	10.0	10.2	0.9185043	0.9372408		2.0	30
o-Xylene	A	5.00	4.90	0.899786	0.8818791		-2.0	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CONTINUING CALIBRATION CHECK

EPA TO-15

S061469-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.89	0.9103154	0.8897463		-2.3	30
Benzene	A	5.00	4.72	0.6606025	0.622961		-5.7	30
Benzyl chloride	A	5.00	5.39	0.5965762	0.6436045		7.9	30
Bromodichloromethane	A	5.00	5.16	0.4537953	0.4686135		3.3	30
Bromoform	A	5.00	5.03	0.6600998	0.663945		0.6	30
Bromomethane	A	5.00	3.92	1.001177	0.7838278		-21.7	30
1,3-Butadiene	A	5.00	4.04	0.6246902	0.5044735		-19.2	30
2-Butanone (MEK)	A	5.00	4.13	1.30749	1.078893		-17.5	30
Carbon Disulfide	A	5.00	4.77	2.466469	2.353236		-4.6	30
Carbon Tetrachloride	A	5.00	4.74	0.5064752	0.4803482		-5.2	30
Chlorobenzene	A	5.00	4.63	0.7751296	0.7172506		-7.5	30
Chloroethane	A	5.00	3.91	0.5001442	0.391217		-21.8	30
Chloroform	A	5.00	4.34	2.018779	1.752508		-13.2	30
Chloromethane	A	5.00	4.26	0.6141491	0.5238227		-14.7	30
Cyclohexane	A	5.00	4.44	0.2849344	0.253102		-11.2	30
Dibromochloromethane	A	5.00	4.92	0.6429615	0.6328404		-1.6	30
1,2-Dibromoethane (EDB)	A	5.00	4.95	0.4841019	0.4796184		-0.9	30
1,2-Dichlorobenzene	A	5.00	4.94	0.6846313	0.6759313		-1.3	30
1,3-Dichlorobenzene	A	5.00	5.10	0.7215992	0.7362222		2.0	30
1,4-Dichlorobenzene	A	5.00	4.98	0.7134896	0.7106363		-0.4	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.06	2.507091	2.035767		-18.8	30
1,1-Dichloroethane	A	5.00	4.24	1.545303	1.308901		-15.3	30
1,2-Dichloroethane	A	5.00	4.36	1.058805	0.9241404		-12.7	30
1,1-Dichloroethylene	A	5.00	4.67	1.160287	1.082767		-6.7	30
cis-1,2-Dichloroethylene	A	5.00	4.13	1.114268	0.9211273		-17.3	30
trans-1,2-Dichloroethylene	A	5.00	4.23	1.201908	1.016029		-15.5	30
1,2-Dichloropropane	A	5.00	4.65	0.2231134	0.2074902		-7.0	30
cis-1,3-Dichloropropene	A	5.00	4.41	0.3628898	0.3200102		-11.8	30
trans-1,3-Dichloropropene	A	5.00	4.58	0.3055463	0.2798882		-8.4	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.04	2.650055	2.140159		-19.2	30
1,4-Dioxane	A	5.00	4.52	0.139387	0.1261482		-9.5	30
Ethanol	A	5.00	3.94	0.1702165	0.1342455		-21.1	30
Ethyl Acetate	A	5.00	4.87	0.2280188	0.2221368		-2.6	30
Ethylbenzene	A	5.00	4.66	1.161395	1.082651		-6.8	30
4-Ethyltoluene	A	5.00	4.56	1.262817	1.15272		-8.7	30
Heptane	A	5.00	4.94	0.1688454	0.1666972		-1.3	30
Hexachlorobutadiene	A	5.00	4.58	0.6918294	0.6333207		-8.5	30
Hexane	L	5.00	4.55	0.6531603	0.5921804		-8.9	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061469-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.75	0.280065	0.3222523		15.1	30
Isopropanol	A	5.00	5.06	1.001981	1.013374		1.1	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	3.74	2.512535	1.879467		-25.2	30
Methylene Chloride	A	5.00	5.25	0.6621826	0.6950243		5.0	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.19	0.1531114	0.1588105		3.7	30
Naphthalene	A	5.00	3.66	1.086932	0.7957625		-26.8	30
Propene	A	5.00	3.99	0.4641749	0.370515		-20.2	30
Styrene	A	5.00	4.51	0.7056488	0.6367889		-9.8	30
1,1,2,2-Tetrachloroethane	A	5.00	5.15	0.638583	0.6583113		3.1	30
Tetrachloroethylene	A	5.00	4.58	0.5546794	0.5081692		-8.4	30
Tetrahydrofuran	A	5.00	4.25	0.7143044	0.6067743		-15.1	30
Toluene	A	5.00	4.60	0.9345011	0.8595619		-8.0	30
1,2,4-Trichlorobenzene	A	5.00	3.45	0.4260284	0.2938424		-31.0	30 *
1,1,1-Trichloroethane	A	5.00	4.82	0.4496133	0.4336383		-3.6	30
1,1,2-Trichloroethane	A	5.00	4.78	0.3281373	0.3133431		-4.5	30
Trichloroethylene	A	5.00	4.93	0.2979469	0.2938671		-1.4	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.16	2.536841	2.1097		-16.8	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.35	1.957735	1.704822		-12.9	30
1,2,4-Trimethylbenzene	A	5.00	4.56	1.026744	0.9361413		-8.8	30
1,3,5-Trimethylbenzene	A	5.00	4.97	1.080978	1.07426		-0.6	30
Vinyl Acetate	A	5.00	2.96	1.400965	0.8301204		-40.7	30 *
Vinyl Chloride	A	5.00	4.13	0.8554634	0.7068409		-17.4	30
m&p-Xylene	A	10.0	10.1	0.9185043	0.9275413		1.0	30
o-Xylene	A	5.00	4.88	0.899786	0.8778577		-2.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

Company Name:	Stone Environmental
Address:	535 Stone Cutter's Way, Montpelier, VT
Phone:	802-229-4541
Project Name:	100 River St
Project Location:	Springfield, VT
Project Number:	19-124
Project Manager:	Dan Vaisin
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	SVL, BB, DTV

Requested Turnaround Time			
7-Day	☐	10-Day	☐
Due Date:			
Rush-Approval Required			
1-Day	☐	3-Day	☐
2-Day	☐	4-Day	☐
Data Delivery			
Format:	PDF	☒ EXCEL	☐
Other:	Equi's EDD		
CLP Like Data Pkg Required:			☐
Email To:	dvd@isn@stone-isw.com		
Fax To #:			

ANALYSIS REQUESTED

" Hg Final Pressure Initial Pressure	Lab Receipt Pressure	Please fill out completely, sign, date and retain the yellow copy for your records
	Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply	
	For summa canister and flow controller information please refer to Con-Test's Air Media Agreement	

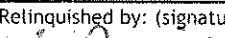
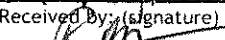
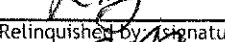
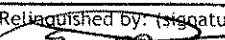
Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	to Con-Test's Air Media Agreement	
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m ³ /min ☐ L/min	Code	☐ Liters ☐ m ³	Summa Can ID	Flow Controller ID
01	05P-SG-01	4/29/21 9:15	9:51	36		SG	X	-30-2 2 ^x	2275 4346
02	05P-SG-02	9:41	10:06	25			X	-30-3 3 ^x	2364 4253
03	05P-SG-03	9:58	10:30	32			X	-30-3 3 ^x	2381 4118
04	05P-SG-04	10:36	11:09	33			X	-29-3 2 ^x	2586 4331
05	05P-SG-05	10:50	11:20	30			X	-29-2 2 ^x	2579 4330
06	05P-SG-05-FD	10:50	11:20	30			X	-29-2 2 ^x	2433 4328
07	05P-SG-06	11:08	11:34	26			X	-30-3 2 ^x	2403 4340
08	65P-SG-09	13:09	13:39	30			X	-26-3 2 ^x	2418 4156
09	65P-SG-08	13:48	14:13	25		X	X	-28-3 2 ^x	2413 4345

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:

SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other

Relinquished by: (signature)	Date/Time:	Detection Limit Requirements	Special Requirements
	6/30/21 1600	☒ MA	☐ MA MCP Required
Received by: (signature)	Date/Time:		MCP Certification Form Required
	6/30/21 1600		☐ CT RCP Required
Relinquished by: (signature)	Date/Time:	☒ CI	RCP Certification Form Required
	7/1/21 9:45 am		
Received by: (signature)	Date/Time:		☐ Other
	7/1/21 9:45	☒ Other	
Relinquished by: (signature)	Date/Time:	Project Entity	
	7/1/21 4:15	☐ Government	☐ Municipality
Received by: (signature)	Date/Time:	☐ Federal	☐ 21 J
	7/1/21 4:15	☐ City	☐ Brownfield
		☐ MWRA	☐ School
		☐ MBTA	



NELAC and AIHA-LAP, LLC Accredited

Other	<u>PCB ONLY</u>
☐ Chromatogram	☐ Soxhlet
☐ AIHA-LAP, LLC	☐ Non Soxhlet

Company Name: Stone Environmental Inc.
Address: 535 Stone Cutters Way, Montpelier VT
Phone: 802-289-4541
Project Name: Integrity Springfield
Project Location: Springfield VT
Project Number: 19-124
Project Manager: Dan Voisin
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: SYR, LBR, DTV

Requested Turnaround Time	
7-Day ☒	10-Day ☐
Due Date:	
Rush Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☐
Other: <u>Equis Edd</u>	
CLP Like Data Pkg Required: ☐	
Email To: <u>dvoisin@stone-env.com</u>	
Fax To #:	

ANALYSIS REQUESTED

Initial Pressure	Final Pressure	Lab Receipt Pressure	" Hg	Please fill out completely, sign, date and retain the yellow copy for your records
			Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply	
			For summa canister and flow controller information please refer to Con-Test's Air Media Agreement	
			Summa Can ID	Flow Controller ID

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume								
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	m ³ /min L/min	Code	Liters m ³								
10	65P-SG-07	6/29/21 1408	1436	28		SG		X				29	3	22	2272
11	65P-SG-06		1424	1453	29			X				29	3	22	2582
12	100R-SG-01		1556	1623	27			X				30	2	22	2417
13	100R-SG-02		1611	1642	31			X				30	3	22	2431
14	100R-SG-03	6/30/21 1101	1153	52				X				29	3	22	2438
15	100R-SG-04		1226	1254	26			X				28	3	22	2401
16	100R-SG-09		1128	1157	29			X				27	3	22	2405

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:

SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SOLID
BI = BIOLOGICAL
O = OTHER

Relinquished by: (signature) <u>L. Raynae</u>	Date/Time: <u>6/30/21 1600</u>	Detection Limit Requirements	Special Requirements
Received by: (signature) <u>[Signature]</u>	Date/Time: <u>6/30/21 1600</u>	MA	MA MCP Required ☐
Relinquished by: (signature) <u>[Signature]</u>	Date/Time: <u>7/1/21 9:45 AM</u>	CT	MCP Certification Form Required ☐
Received by: (signature) <u>[Signature]</u>	Date/Time: <u>7/1/21 9:45 AM</u>	Other	CT RCP Required ☐
Relinquished by: (signature) <u>[Signature]</u>	Date/Time: <u>7/1/21 9:45 AM</u>		RCP Certification Form Required ☐
Received by: (signature) <u>[Signature]</u>	Date/Time: <u>7/1/21 9:45 AM</u>		Other ☐
Relinquished by: (signature) <u>[Signature]</u>	Date/Time: <u>7/1/21 9:45 AM</u>	Project Entity	
Received by: (signature) <u>[Signature]</u>	Date/Time: <u>7/1/21 9:45 AM</u>	☐ Government ☐ Municipality ☐ MWRA ☐ WRTA	
		☐ Federal ☐ 21 J ☐ School	
		☐ City ☐ Brownfield ☐ MBTA	

 www.contestlabs.com		NELAC and AIHA-LAP, LLC Accredited
Other	PCB ONLY	
☐ Chromatogram	☐ Soxhlet	
☐ AIHA-LAP, LLC	☐ Non Soxhlet	

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before
Relinquishing Over
Samples _____



con-test[®]
ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

**Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False**

Client Stone Environmental

Received By RJE Date 7/11/21 Time 1415
How were the samples received? In Cooler _____ On Ice _____ No Ice _____
In Box T Ambient _____ Melted Ice _____
Were samples within Temperature Compliance? 2-6°C NA By Gun # _____ Actual Temp - _____
By Blank # _____ Actual Temp - _____
Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T
Are there any loose caps/valves on any samples? F
Is COC in ink/ Legible? T
Did COC Include all Client T Analysis T Sampler Name T
Pertinent Information? Project T ID's T Collection Dates/Times T
Are Sample Labels filled out and legible? T
Are there Rushes? F Who was notified? _____
Samples are received within holding time? T
Proper Media Used? T Individually Certified Cans? F
Are there Trip Blanks? F Is there enough Volume? T

Containers:	#	Size	Regulator	Duration	Accessories:		
Summa Cans	19	3L	20	30min	Nut/Ferrule		IC Train
Tedlar Bags			19		Tubing		
TO-17 Tubes					T-Connector		Shipping Charges
Radiello					Syringe		
Pufs/TO-11s					Tedlar		

Can #'s					Reg #'s				
2075	2403	2431			4340	4340	4323		
2364	2418	2438			4253	4150	4355		
2381	2413	2401			4118	4345	4121		
2586	2272	2405			4331	4342	4097		
2579	2582				4330	4341			
2433	2417				4328	4319			
Unused Media					Pufs/TO-17's				
2377	(-0.6)	4320							
2276	(-0.6)	4329							
2409	(-28.9)	4255							

Comments:

GSP-SG-07 goes with can #2582/4341
GSP-SG-06 goes with can #2272/4342

July 21, 2021

Dan Voisin
Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602

Project Location: Springfield, VT
Client Job Number:
Project Number: 19-124
Laboratory Work Order Number: 21G0620

Enclosed are results of analyses for samples received by the laboratory on July 13, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Stone Environmental
535 Stone Cutters Ways
Montpelier, VT 05602
ATTN: Dan Voisin

REPORT DATE: 7/21/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 19-124

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0620

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Springfield, VT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
100R-SG-08	21G0620-01	Soil Gas		EPA TO-15	
100R-SG-07	21G0620-02	Soil Gas		EPA TO-15	
100R-SG-06	21G0620-03	Soil Gas		EPA TO-15	
100R-SG-05	21G0620-04	Soil Gas		EPA TO-15	
65P-SG-02	21G0620-05	Soil Gas		EPA TO-15	
65P-SG-02-FD	21G0620-06	Soil Gas		EPA TO-15	
65P-SG-01	21G0620-07	Soil Gas		EPA TO-15	
65P-SG-03	21G0620-08	Soil Gas		EPA TO-15	
65P-SG-05	21G0620-09	Soil Gas		EPA TO-15	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15

Qualifications:

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

21G0620-05[65P-SG-02], 21G0620-06[65P-SG-02-FD]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Vinyl Acetate

21G0620-01[100R-SG-08], 21G0620-02[100R-SG-07], 21G0620-03[100R-SG-06], 21G0620-04[100R-SG-05], 21G0620-05[65P-SG-02], 21G0620-06[65P-SG-02-FD], 21G0620-07[65P-SG-01], 21G0620-08[65P-SG-03], 21G0620-09[65P-SG-05], B286460-BLK1, B286460-BS1, S061701-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene

21G0620-01[100R-SG-08], 21G0620-02[100R-SG-07], 21G0620-03[100R-SG-06], 21G0620-04[100R-SG-05], 21G0620-05[65P-SG-02], 21G0620-06[65P-SG-02-FD], 21G0620-07[65P-SG-01], 21G0620-08[65P-SG-03], 21G0620-09[65P-SG-05], B286460-BLK1, B286460-BS1, S061701-CCV1

Z-01

Compound fails the method requirement of 70-130% recovery for the LCS. Is classified by the lab as a difficult compound and passes the in house limits of 50-150%.

Analyte & Samples(s) Qualified:

Naphthalene

21G0620-01[100R-SG-08], 21G0620-02[100R-SG-07], 21G0620-03[100R-SG-06], 21G0620-04[100R-SG-05], 21G0620-05[65P-SG-02], 21G0620-06[65P-SG-02-FD], 21G0620-07[65P-SG-01], 21G0620-08[65P-SG-03], 21G0620-09[65P-SG-05], B286460-BLK1, B286460-BS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 100R-SG-08
Sample ID: 21G0620-01
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 09:11

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2269
 Canister Size: 3 liter
 Flow Controller ID: 4111
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	18	4.0		43	9.5	2	7/20/21 17:53	BRF	
Benzene	0.20	0.10		0.64	0.32	2	7/20/21 17:53	BRF	
Benzyl chloride	ND	0.10		ND	0.52	2	7/20/21 17:53	BRF	
Bromodichloromethane	ND	0.10		ND	0.67	2	7/20/21 17:53	BRF	
Bromoform	ND	0.10		ND	1.0	2	7/20/21 17:53	BRF	
Bromomethane	ND	0.10		ND	0.39	2	7/20/21 17:53	BRF	
1,3-Butadiene	ND	0.10		ND	0.22	2	7/20/21 17:53	BRF	
2-Butanone (MEK)	ND	4.0		ND	12	2	7/20/21 17:53	BRF	
Carbon Disulfide	ND	1.0		ND	3.1	2	7/20/21 17:53	BRF	
Carbon Tetrachloride	0.52	0.10		3.3	0.63	2	7/20/21 17:53	BRF	
Chlorobenzene	ND	0.10		ND	0.46	2	7/20/21 17:53	BRF	
Chloroethane	ND	0.10		ND	0.26	2	7/20/21 17:53	BRF	
Chloroform	0.67	0.10		3.3	0.49	2	7/20/21 17:53	BRF	
Chloromethane	ND	0.20		ND	0.41	2	7/20/21 17:53	BRF	
Cyclohexane	ND	0.10		ND	0.34	2	7/20/21 17:53	BRF	
Dibromochloromethane	ND	0.10		ND	0.85	2	7/20/21 17:53	BRF	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/20/21 17:53	BRF	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21 17:53	BRF	
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21 17:53	BRF	
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21 17:53	BRF	
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/20/21 17:53	BRF	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21 17:53	BRF	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21 17:53	BRF	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21 17:53	BRF	
cis-1,2-Dichloroethylene	0.54	0.10		2.1	0.40	2	7/20/21 17:53	BRF	
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21 17:53	BRF	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/20/21 17:53	BRF	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21 17:53	BRF	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21 17:53	BRF	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/20/21 17:53	BRF	
1,4-Dioxane	ND	1.0		ND	3.6	2	7/20/21 17:53	BRF	
Ethanol	21	4.0		40	7.5	2	7/20/21 17:53	BRF	
Ethyl Acetate	ND	1.0		ND	3.6	2	7/20/21 17:53	BRF	
Ethylbenzene	0.21	0.10		0.92	0.43	2	7/20/21 17:53	BRF	
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/20/21 17:53	BRF	
Heptane	ND	0.10		ND	0.41	2	7/20/21 17:53	BRF	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/20/21 17:53	BRF	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 100R-SG-08
Sample ID: 21G0620-01
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 09:11

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2269
 Canister Size: 3 liter
 Flow Controller ID: 4111
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/20/21 17:53	BRF	
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/20/21 17:53	BRF	
Isopropanol	ND	4.0		ND	9.8	2	7/20/21 17:53	BRF	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/20/21 17:53	BRF	
Methylene Chloride	ND	1.0		ND	3.5	2	7/20/21 17:53	BRF	
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/20/21 17:53	BRF	
Naphthalene	0.36	0.10	Z-01	1.9	0.52	2	7/20/21 17:53	BRF	
Propene	ND	4.0		ND	6.9	2	7/20/21 17:53	BRF	
Styrene	ND	0.10		ND	0.43	2	7/20/21 17:53	BRF	
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/20/21 17:53	BRF	
Tetrachloroethylene	64	0.10		440	0.68	2	7/20/21 17:53	BRF	
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/20/21 17:53	BRF	
Toluene	1.1	0.10		4.0	0.38	2	7/20/21 17:53	BRF	
1,2,4-Trichlorobenzene	ND	0.10	V-34	ND	0.74	2	7/20/21 17:53	BRF	
1,1,1-Trichloroethane	1.6	0.10		8.9	0.55	2	7/20/21 17:53	BRF	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/20/21 17:53	BRF	
Trichloroethylene	120	0.50		660	2.7	10	7/20/21 18:19	BRF	
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/20/21 17:53	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/20/21 17:53	BRF	
1,2,4-Trimethylbenzene	0.88	0.10		4.3	0.49	2	7/20/21 17:53	BRF	
1,3,5-Trimethylbenzene	0.26	0.10		1.3	0.49	2	7/20/21 17:53	BRF	
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/20/21 17:53	BRF	
Vinyl Chloride	ND	0.10		ND	0.26	2	7/20/21 17:53	BRF	
m&p-Xylene	0.86	0.20		3.7	0.87	2	7/20/21 17:53	BRF	
o-Xylene	0.47	0.10		2.0	0.43	2	7/20/21 17:53	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.0	70-130	7/20/21 18:19
4-Bromofluorobenzene (1)	94.0	70-130	7/20/21 17:53

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 100R-SG-07
Sample ID: 21G0620-02
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 09:27

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2439
 Canister Size: 3 liter
 Flow Controller ID: 4242
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	48	4.0		110	9.5	2	7/20/21	18:46	BRF
Benzene	0.98	0.10		3.1	0.32	2	7/20/21	18:46	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/20/21	18:46	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/20/21	18:46	BRF
Bromoform	ND	0.10		ND	1.0	2	7/20/21	18:46	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/20/21	18:46	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/20/21	18:46	BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/20/21	18:46	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/20/21	18:46	BRF
Carbon Tetrachloride	1.3	0.10		8.0	0.63	2	7/20/21	18:46	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/20/21	18:46	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/20/21	18:46	BRF
Chloroform	4.4	0.10		22	0.49	2	7/20/21	18:46	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/20/21	18:46	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/20/21	18:46	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/20/21	18:46	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/20/21	18:46	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	18:46	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	18:46	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	18:46	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/20/21	18:46	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	18:46	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	18:46	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	18:46	BRF
cis-1,2-Dichloroethylene	1.4	0.10		5.4	0.40	2	7/20/21	18:46	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	18:46	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/20/21	18:46	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	18:46	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	18:46	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/20/21	18:46	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/20/21	18:46	BRF
Ethanol	12	4.0		22	7.5	2	7/20/21	18:46	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/20/21	18:46	BRF
Ethylbenzene	0.20	0.10		0.88	0.43	2	7/20/21	18:46	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/20/21	18:46	BRF
Heptane	ND	0.10		ND	0.41	2	7/20/21	18:46	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/20/21	18:46	BRF

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 100R-SG-07
Sample ID: 21G0620-02
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 09:27

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2439
 Canister Size: 3 liter
 Flow Controller ID: 4242
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/20/21 18:46	BRF	
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/20/21 18:46	BRF	
Isopropanol	ND	4.0		ND	9.8	2	7/20/21 18:46	BRF	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/20/21 18:46	BRF	
Methylene Chloride	ND	1.0		ND	3.5	2	7/20/21 18:46	BRF	
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/20/21 18:46	BRF	
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/20/21 18:46	BRF	
Propene	ND	4.0		ND	6.9	2	7/20/21 18:46	BRF	
Styrene	0.12	0.10		0.51	0.43	2	7/20/21 18:46	BRF	
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/20/21 18:46	BRF	
Tetrachloroethylene	110	1.5		720	10	30	7/20/21 19:11	BRF	
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/20/21 18:46	BRF	
Toluene	1.3	0.10		4.9	0.38	2	7/20/21 18:46	BRF	
1,2,4-Trichlorobenzene	ND	0.10	V-34	ND	0.74	2	7/20/21 18:46	BRF	
1,1,1-Trichloroethane	11	0.10		60	0.55	2	7/20/21 18:46	BRF	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/20/21 18:46	BRF	
Trichloroethylene	390	1.5		2100	8.1	30	7/20/21 19:11	BRF	
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/20/21 18:46	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/20/21 18:46	BRF	
1,2,4-Trimethylbenzene	0.33	0.10		1.6	0.49	2	7/20/21 18:46	BRF	
1,3,5-Trimethylbenzene	0.10	0.10		0.51	0.49	2	7/20/21 18:46	BRF	
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/20/21 18:46	BRF	
Vinyl Chloride	ND	0.10		ND	0.26	2	7/20/21 18:46	BRF	
m&p-Xylene	0.64	0.20		2.8	0.87	2	7/20/21 18:46	BRF	
o-Xylene	0.28	0.10		1.2	0.43	2	7/20/21 18:46	BRF	
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	91.1			70-130 7/20/21 19:11					
4-Bromofluorobenzene (1)	95.4			70-130 7/20/21 18:46					

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 100R-SG-06
Sample ID: 21G0620-03
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 09:44

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2388
 Canister Size: 3 liter
 Flow Controller ID: 4261
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	110	60		270	140	30	7/20/21 20:03	BRF
Benzene	2.8	0.10		9.0	0.32	2	7/20/21 19:38	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/20/21 19:38	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/20/21 19:38	BRF
Bromoform	ND	0.10		ND	1.0	2	7/20/21 19:38	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/20/21 19:38	BRF
1,3-Butadiene	8.7	0.10		19	0.22	2	7/20/21 19:38	BRF
2-Butanone (MEK)	9.1	4.0		27	12	2	7/20/21 19:38	BRF
Carbon Disulfide	19	1.0		58	3.1	2	7/20/21 19:38	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/20/21 19:38	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/20/21 19:38	BRF
Chloroethane	9.1	0.10		24	0.26	2	7/20/21 19:38	BRF
Chloroform	10	0.10		50	0.49	2	7/20/21 19:38	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/20/21 19:38	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/20/21 19:38	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/20/21 19:38	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/20/21 19:38	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21 19:38	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21 19:38	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21 19:38	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/20/21 19:38	BRF
1,1-Dichloroethane	460	1.5		1900	6.1	30	7/20/21 20:03	BRF
1,2-Dichloroethane	0.88	0.10		3.6	0.40	2	7/20/21 19:38	BRF
1,1-Dichloroethylene	2.0	0.10		8.0	0.40	2	7/20/21 19:38	BRF
cis-1,2-Dichloroethylene	77	0.10		310	0.40	2	7/20/21 19:38	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21 19:38	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/20/21 19:38	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21 19:38	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21 19:38	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/20/21 19:38	BRF
1,4-Dioxane	120	15		450	54	30	7/20/21 20:03	BRF
Ethanol	250	60		480	110	30	7/20/21 20:03	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/20/21 19:38	BRF
Ethylbenzene	0.45	0.10		1.9	0.43	2	7/20/21 19:38	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/20/21 19:38	BRF
Heptane	0.90	0.10		3.7	0.41	2	7/20/21 19:38	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/20/21 19:38	BRF

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 100R-SG-06
Sample ID: 21G0620-03
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 09:44

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2388
 Canister Size: 3 liter
 Flow Controller ID: 4261
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/20/21 19:38		BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/20/21 19:38		BRF
Isopropanol	8.5	4.0		21	9.8	2	7/20/21 19:38		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/20/21 19:38		BRF
Methylene Chloride	3.9	1.0		14	3.5	2	7/20/21 19:38		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/20/21 19:38		BRF
Naphthalene	0.55	0.10	Z-01	2.9	0.52	2	7/20/21 19:38		BRF
Propene	92	4.0		160	6.9	2	7/20/21 19:38		BRF
Styrene	0.23	0.10		0.98	0.43	2	7/20/21 19:38		BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/20/21 19:38		BRF
Tetrachloroethylene	30	0.10		200	0.68	2	7/20/21 19:38		BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/20/21 19:38		BRF
Toluene	3.6	0.10		14	0.38	2	7/20/21 19:38		BRF
1,2,4-Trichlorobenzene	ND	0.10	V-34	ND	0.74	2	7/20/21 19:38		BRF
1,1,1-Trichloroethane	130	1.5		680	8.2	30	7/20/21 20:03		BRF
1,1,2-Trichloroethane	0.27	0.10		1.5	0.55	2	7/20/21 19:38		BRF
Trichloroethylene	520	1.5		2800	8.1	30	7/20/21 20:03		BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/20/21 19:38		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/20/21 19:38		BRF
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/20/21 19:38		BRF
1,3,5-Trimethylbenzene	0.18	0.10		0.87	0.49	2	7/20/21 19:38		BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/20/21 19:38		BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/20/21 19:38		BRF
m&p-Xylene	1.4	0.20		6.1	0.87	2	7/20/21 19:38		BRF
o-Xylene	0.62	0.10		2.7	0.43	2	7/20/21 19:38		BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	89.2			70-130				7/20/21 20:03	
4-Bromofluorobenzene (1)	95.0			70-130				7/20/21 19:38	

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 100R-SG-05
Sample ID: 21G0620-04
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 10:00

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2359
 Canister Size: 3 liter
 Flow Controller ID: 4125
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	830	60		2000	140	30	7/21/21	7:39	BRF
Benzene	1.1	0.10		3.6	0.32	2	7/20/21	20:30	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/20/21	20:30	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/20/21	20:30	BRF
Bromoform	ND	0.10		ND	1.0	2	7/20/21	20:30	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/20/21	20:30	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/20/21	20:30	BRF
2-Butanone (MEK)	17	4.0		50	12	2	7/20/21	20:30	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/20/21	20:30	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/20/21	20:30	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/20/21	20:30	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/20/21	20:30	BRF
Chloroform	3.1	0.10		15	0.49	2	7/20/21	20:30	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/20/21	20:30	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/20/21	20:30	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/20/21	20:30	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/20/21	20:30	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	20:30	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	20:30	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	20:30	BRF
Dichlorodifluoromethane (Freon 12)	0.41	0.10		2.0	0.49	2	7/20/21	20:30	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	20:30	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	20:30	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	20:30	BRF
cis-1,2-Dichloroethylene	2.1	0.10		8.5	0.40	2	7/20/21	20:30	BRF
trans-1,2-Dichloroethylene	0.38	0.10		1.5	0.40	2	7/20/21	20:30	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/20/21	20:30	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	20:30	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	20:30	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/20/21	20:30	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/20/21	20:30	BRF
Ethanol	14	4.0		26	7.5	2	7/20/21	20:30	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/20/21	20:30	BRF
Ethylbenzene	0.23	0.10		1.00	0.43	2	7/20/21	20:30	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/20/21	20:30	BRF
Heptane	ND	0.10		ND	0.41	2	7/20/21	20:30	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/20/21	20:30	BRF

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 100R-SG-05
Sample ID: 21G0620-04
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 10:00

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2359
 Canister Size: 3 liter
 Flow Controller ID: 4125
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/20/21	20:30	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/20/21	20:30	BRF
Isopropanol	4.0	4.0		9.9	9.8	2	7/20/21	20:30	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/20/21	20:30	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/20/21	20:30	BRF
4-Methyl-2-pentanone (MIBK)	6.5	0.10		27	0.41	2	7/20/21	20:30	BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/20/21	20:30	BRF
Propene	23	4.0		39	6.9	2	7/20/21	20:30	BRF
Styrene	0.14	0.10		0.59	0.43	2	7/20/21	20:30	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/20/21	20:30	BRF
Tetrachloroethylene	0.68	0.10		4.6	0.68	2	7/20/21	20:30	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/20/21	20:30	BRF
Toluene	2.1	0.10		7.8	0.38	2	7/20/21	20:30	BRF
1,2,4-Trichlorobenzene	ND	0.10	V-34	ND	0.74	2	7/20/21	20:30	BRF
1,1,1-Trichloroethane	0.41	0.10		2.3	0.55	2	7/20/21	20:30	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/20/21	20:30	BRF
Trichloroethylene	77	0.10		410	0.54	2	7/20/21	20:30	BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/20/21	20:30	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/20/21	20:30	BRF
1,2,4-Trimethylbenzene	0.94	0.10		4.6	0.49	2	7/20/21	20:30	BRF
1,3,5-Trimethylbenzene	0.27	0.10		1.3	0.49	2	7/20/21	20:30	BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/20/21	20:30	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/20/21	20:30	BRF
m&p-Xylene	0.82	0.20		3.6	0.87	2	7/20/21	20:30	BRF
o-Xylene	0.35	0.10		1.5	0.43	2	7/20/21	20:30	BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	95.6			70-130				7/21/21	7:39
4-Bromofluorobenzene (1)	93.8			70-130				7/20/21	20:30

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-02
Sample ID: 21G0620-05
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 11:33

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2350
 Canister Size: 3 liter
 Flow Controller ID: 4334
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: RL-11									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	1300	60		3000	140	30	7/20/21 21:20		BRF
Benzene	ND	1.5		ND	4.8	30	7/20/21 21:20		BRF
Benzyl chloride	ND	1.5		ND	7.8	30	7/20/21 21:20		BRF
Bromodichloromethane	ND	1.5		ND	10	30	7/20/21 21:20		BRF
Bromoform	ND	1.5		ND	16	30	7/20/21 21:20		BRF
Bromomethane	ND	1.5		ND	5.8	30	7/20/21 21:20		BRF
1,3-Butadiene	ND	1.5		ND	3.3	30	7/20/21 21:20		BRF
2-Butanone (MEK)	ND	60		ND	180	30	7/20/21 21:20		BRF
Carbon Disulfide	ND	15		ND	47	30	7/20/21 21:20		BRF
Carbon Tetrachloride	ND	1.5		ND	9.4	30	7/20/21 21:20		BRF
Chlorobenzene	ND	1.5		ND	6.9	30	7/20/21 21:20		BRF
Chloroethane	ND	1.5		ND	4.0	30	7/20/21 21:20		BRF
Chloroform	ND	1.5		ND	7.3	30	7/20/21 21:20		BRF
Chloromethane	ND	3.0		ND	6.2	30	7/20/21 21:20		BRF
Cyclohexane	ND	1.5		ND	5.2	30	7/20/21 21:20		BRF
Dibromochloromethane	ND	1.5		ND	13	30	7/20/21 21:20		BRF
1,2-Dibromoethane (EDB)	ND	1.5		ND	12	30	7/20/21 21:20		BRF
1,2-Dichlorobenzene	ND	1.5		ND	9.0	30	7/20/21 21:20		BRF
1,3-Dichlorobenzene	ND	1.5		ND	9.0	30	7/20/21 21:20		BRF
1,4-Dichlorobenzene	ND	1.5		ND	9.0	30	7/20/21 21:20		BRF
Dichlorodifluoromethane (Freon 12)	ND	1.5		ND	7.4	30	7/20/21 21:20		BRF
1,1-Dichloroethane	ND	1.5		ND	6.1	30	7/20/21 21:20		BRF
1,2-Dichloroethane	ND	1.5		ND	6.1	30	7/20/21 21:20		BRF
1,1-Dichloroethylene	ND	1.5		ND	5.9	30	7/20/21 21:20		BRF
cis-1,2-Dichloroethylene	ND	1.5		ND	5.9	30	7/20/21 21:20		BRF
trans-1,2-Dichloroethylene	ND	1.5		ND	5.9	30	7/20/21 21:20		BRF
1,2-Dichloropropane	ND	1.5		ND	6.9	30	7/20/21 21:20		BRF
cis-1,3-Dichloropropene	ND	1.5		ND	6.8	30	7/20/21 21:20		BRF
trans-1,3-Dichloropropene	ND	1.5		ND	6.8	30	7/20/21 21:20		BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	1.5		ND	10	30	7/20/21 21:20		BRF
1,4-Dioxane	ND	15		ND	54	30	7/20/21 21:20		BRF
Ethanol	ND	60		ND	110	30	7/20/21 21:20		BRF
Ethyl Acetate	ND	15		ND	54	30	7/20/21 21:20		BRF
Ethylbenzene	ND	1.5		ND	6.5	30	7/20/21 21:20		BRF
4-Ethyltoluene	ND	1.5		ND	7.4	30	7/20/21 21:20		BRF
Heptane	ND	1.5		ND	6.1	30	7/20/21 21:20		BRF
Hexachlorobutadiene	ND	1.5		ND	16	30	7/20/21 21:20		BRF

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-02
Sample ID: 21G0620-05
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 11:33

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2350
 Canister Size: 3 liter
 Flow Controller ID: 4334
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: RL-11	ppbv			ug/m3		Date/Time			
Analyte	Results	RL	Flag/Qual	Results	RL	Dilution	Analyzed		Analyst
Hexane	ND	60		ND	210	30	7/20/21 21:20		BRF
2-Hexanone (MBK)	ND	3.0		ND	12	30	7/20/21 21:20		BRF
Isopropanol	ND	60		ND	150	30	7/20/21 21:20		BRF
Methyl tert-Butyl Ether (MTBE)	ND	1.5		ND	5.4	30	7/20/21 21:20		BRF
Methylene Chloride	ND	15		ND	52	30	7/20/21 21:20		BRF
4-Methyl-2-pentanone (MIBK)	ND	1.5		ND	6.1	30	7/20/21 21:20		BRF
Naphthalene	ND	1.5	Z-01	ND	7.9	30	7/20/21 21:20		BRF
Propene	ND	60		ND	100	30	7/20/21 21:20		BRF
Styrene	ND	1.5		ND	6.4	30	7/20/21 21:20		BRF
1,1,2,2-Tetrachloroethane	ND	1.5		ND	10	30	7/20/21 21:20		BRF
Tetrachloroethylene	900	1.5		6100	10	30	7/20/21 21:20		BRF
Tetrahydrofuran	ND	15		ND	44	30	7/20/21 21:20		BRF
Toluene	5.8	1.5		22	5.7	30	7/20/21 21:20		BRF
1,2,4-Trichlorobenzene	ND	1.5	V-34	ND	11	30	7/20/21 21:20		BRF
1,1,1-Trichloroethane	110	1.5		610	8.2	30	7/20/21 21:20		BRF
1,1,2-Trichloroethane	ND	1.5		ND	8.2	30	7/20/21 21:20		BRF
Trichloroethylene	ND	1.5		ND	8.1	30	7/20/21 21:20		BRF
Trichlorofluoromethane (Freon 11)	ND	6.0		ND	34	30	7/20/21 21:20		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	6.0		ND	46	30	7/20/21 21:20		BRF
1,2,4-Trimethylbenzene	ND	1.5		ND	7.4	30	7/20/21 21:20		BRF
1,3,5-Trimethylbenzene	ND	1.5		ND	7.4	30	7/20/21 21:20		BRF
Vinyl Acetate	ND	30	V-05	ND	110	30	7/20/21 21:20		BRF
Vinyl Chloride	ND	1.5		ND	3.8	30	7/20/21 21:20		BRF
m&p-Xylene	3.9	3.0		17	13	30	7/20/21 21:20		BRF
o-Xylene	ND	1.5		ND	6.5	30	7/20/21 21:20		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.6	70-130	7/20/21 21:20

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-02-FD
Sample ID: 21G0620-06
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 11:35

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2380
 Canister Size: 3 liter
 Flow Controller ID: 4335
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: RL-11									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	1200	60		3000	140	30	7/20/21	21:46	BRF
Benzene	ND	1.5		ND	4.8	30	7/20/21	21:46	BRF
Benzyl chloride	ND	1.5		ND	7.8	30	7/20/21	21:46	BRF
Bromodichloromethane	ND	1.5		ND	10	30	7/20/21	21:46	BRF
Bromoform	ND	1.5		ND	16	30	7/20/21	21:46	BRF
Bromomethane	ND	1.5		ND	5.8	30	7/20/21	21:46	BRF
1,3-Butadiene	ND	1.5		ND	3.3	30	7/20/21	21:46	BRF
2-Butanone (MEK)	ND	60		ND	180	30	7/20/21	21:46	BRF
Carbon Disulfide	ND	15		ND	47	30	7/20/21	21:46	BRF
Carbon Tetrachloride	ND	1.5		ND	9.4	30	7/20/21	21:46	BRF
Chlorobenzene	ND	1.5		ND	6.9	30	7/20/21	21:46	BRF
Chloroethane	ND	1.5		ND	4.0	30	7/20/21	21:46	BRF
Chloroform	ND	1.5		ND	7.3	30	7/20/21	21:46	BRF
Chloromethane	ND	3.0		ND	6.2	30	7/20/21	21:46	BRF
Cyclohexane	ND	1.5		ND	5.2	30	7/20/21	21:46	BRF
Dibromochloromethane	ND	1.5		ND	13	30	7/20/21	21:46	BRF
1,2-Dibromoethane (EDB)	ND	1.5		ND	12	30	7/20/21	21:46	BRF
1,2-Dichlorobenzene	ND	1.5		ND	9.0	30	7/20/21	21:46	BRF
1,3-Dichlorobenzene	ND	1.5		ND	9.0	30	7/20/21	21:46	BRF
1,4-Dichlorobenzene	ND	1.5		ND	9.0	30	7/20/21	21:46	BRF
Dichlorodifluoromethane (Freon 12)	ND	1.5		ND	7.4	30	7/20/21	21:46	BRF
1,1-Dichloroethane	ND	1.5		ND	6.1	30	7/20/21	21:46	BRF
1,2-Dichloroethane	ND	1.5		ND	6.1	30	7/20/21	21:46	BRF
1,1-Dichloroethylene	ND	1.5		ND	5.9	30	7/20/21	21:46	BRF
cis-1,2-Dichloroethylene	ND	1.5		ND	5.9	30	7/20/21	21:46	BRF
trans-1,2-Dichloroethylene	ND	1.5		ND	5.9	30	7/20/21	21:46	BRF
1,2-Dichloropropane	ND	1.5		ND	6.9	30	7/20/21	21:46	BRF
cis-1,3-Dichloropropene	ND	1.5		ND	6.8	30	7/20/21	21:46	BRF
trans-1,3-Dichloropropene	ND	1.5		ND	6.8	30	7/20/21	21:46	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	1.5		ND	10	30	7/20/21	21:46	BRF
1,4-Dioxane	ND	15		ND	54	30	7/20/21	21:46	BRF
Ethanol	ND	60		ND	110	30	7/20/21	21:46	BRF
Ethyl Acetate	ND	15		ND	54	30	7/20/21	21:46	BRF
Ethylbenzene	ND	1.5		ND	6.5	30	7/20/21	21:46	BRF
4-Ethyltoluene	ND	1.5		ND	7.4	30	7/20/21	21:46	BRF
Heptane	ND	1.5		ND	6.1	30	7/20/21	21:46	BRF
Hexachlorobutadiene	ND	1.5		ND	16	30	7/20/21	21:46	BRF

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-02-FD
Sample ID: 21G0620-06
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 11:35

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2380
 Canister Size: 3 liter
 Flow Controller ID: 4335
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4.5
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Hexane	ND	60		ND	210	30	7/20/21 21:46	BRF
2-Hexanone (MBK)	ND	3.0		ND	12	30	7/20/21 21:46	BRF
Isopropanol	ND	60		ND	150	30	7/20/21 21:46	BRF
Methyl tert-Butyl Ether (MTBE)	ND	1.5		ND	5.4	30	7/20/21 21:46	BRF
Methylene Chloride	ND	15		ND	52	30	7/20/21 21:46	BRF
4-Methyl-2-pentanone (MIBK)	ND	1.5		ND	6.1	30	7/20/21 21:46	BRF
Naphthalene	ND	1.5	Z-01	ND	7.9	30	7/20/21 21:46	BRF
Propene	ND	60		ND	100	30	7/20/21 21:46	BRF
Styrene	ND	1.5		ND	6.4	30	7/20/21 21:46	BRF
1,1,2,2-Tetrachloroethane	ND	1.5		ND	10	30	7/20/21 21:46	BRF
Tetrachloroethylene	860	1.5		5900	10	30	7/20/21 21:46	BRF
Tetrahydrofuran	ND	15		ND	44	30	7/20/21 21:46	BRF
Toluene	5.0	1.5		19	5.7	30	7/20/21 21:46	BRF
1,2,4-Trichlorobenzene	ND	1.5	V-34	ND	11	30	7/20/21 21:46	BRF
1,1,1-Trichloroethane	110	1.5		580	8.2	30	7/20/21 21:46	BRF
1,1,2-Trichloroethane	ND	1.5		ND	8.2	30	7/20/21 21:46	BRF
Trichloroethylene	ND	1.5		ND	8.1	30	7/20/21 21:46	BRF
Trichlorofluoromethane (Freon 11)	ND	6.0		ND	34	30	7/20/21 21:46	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	6.0		ND	46	30	7/20/21 21:46	BRF
1,2,4-Trimethylbenzene	ND	1.5		ND	7.4	30	7/20/21 21:46	BRF
1,3,5-Trimethylbenzene	ND	1.5		ND	7.4	30	7/20/21 21:46	BRF
Vinyl Acetate	ND	30	V-05	ND	110	30	7/20/21 21:46	BRF
Vinyl Chloride	ND	1.5		ND	3.8	30	7/20/21 21:46	BRF
m&p-Xylene	3.2	3.0		14	13	30	7/20/21 21:46	BRF
o-Xylene	ND	1.5		ND	6.5	30	7/20/21 21:46	BRF

Surrogates	% Recovery	% REC Limits
4-Bromofluorobenzene (1)	92.5	70-130
		7/20/21 21:46

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-01
Sample ID: 21G0620-07
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 11:52

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2424
 Canister Size: 3 liter
 Flow Controller ID: 4055
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -4.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	520	60		1200	140	30	7/20/21	22:37	BRF
Benzene	0.40	0.10		1.3	0.32	2	7/20/21	22:13	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/20/21	22:13	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/20/21	22:13	BRF
Bromoform	ND	0.10		ND	1.0	2	7/20/21	22:13	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/20/21	22:13	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/20/21	22:13	BRF
2-Butanone (MEK)	11	4.0		32	12	2	7/20/21	22:13	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/20/21	22:13	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/20/21	22:13	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/20/21	22:13	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/20/21	22:13	BRF
Chloroform	0.23	0.10		1.1	0.49	2	7/20/21	22:13	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/20/21	22:13	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/20/21	22:13	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/20/21	22:13	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/20/21	22:13	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	22:13	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	22:13	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	22:13	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/20/21	22:13	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	22:13	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	22:13	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	22:13	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	22:13	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	22:13	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/20/21	22:13	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	22:13	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	22:13	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/20/21	22:13	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/20/21	22:13	BRF
Ethanol	9.3	4.0		17	7.5	2	7/20/21	22:13	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/20/21	22:13	BRF
Ethylbenzene	0.23	0.10		1.0	0.43	2	7/20/21	22:13	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/20/21	22:13	BRF
Heptane	ND	0.10		ND	0.41	2	7/20/21	22:13	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/20/21	22:13	BRF

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-01
Sample ID: 21G0620-07
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 11:52

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2424
 Canister Size: 3 liter
 Flow Controller ID: 4055
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -4.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/20/21 22:13		BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/20/21 22:13		BRF
Isopropanol	8.7	4.0		22	9.8	2	7/20/21 22:13		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/20/21 22:13		BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/20/21 22:13		BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/20/21 22:13		BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/20/21 22:13		BRF
Propene	ND	4.0		ND	6.9	2	7/20/21 22:13		BRF
Styrene	ND	0.10		ND	0.43	2	7/20/21 22:13		BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/20/21 22:13		BRF
Tetrachloroethylene	450	1.5		3100	10	30	7/20/21 22:37		BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/20/21 22:13		BRF
Toluene	4.2	0.10		16	0.38	2	7/20/21 22:13		BRF
1,2,4-Trichlorobenzene	ND	0.10	V-34	ND	0.74	2	7/20/21 22:13		BRF
1,1,1-Trichloroethane	57	0.10		310	0.55	2	7/20/21 22:13		BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/20/21 22:13		BRF
Trichloroethylene	0.27	0.10		1.5	0.54	2	7/20/21 22:13		BRF
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/20/21 22:13		BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/20/21 22:13		BRF
1,2,4-Trimethylbenzene	0.41	0.10		2.0	0.49	2	7/20/21 22:13		BRF
1,3,5-Trimethylbenzene	0.12	0.10		0.59	0.49	2	7/20/21 22:13		BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/20/21 22:13		BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/20/21 22:13		BRF
m&p-Xylene	0.85	0.20		3.7	0.87	2	7/20/21 22:13		BRF
o-Xylene	0.34	0.10		1.5	0.43	2	7/20/21 22:13		BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	90.9			70-130				7/20/21 22:37	
4-Bromofluorobenzene (1)	96.5			70-130				7/20/21 22:13	

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-03
Sample ID: 21G0620-08
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 11:56

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2416
 Canister Size: 3 liter
 Flow Controller ID: 4167
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	430	40		1000	95	20	7/20/21	23:29	BRF
Benzene	ND	0.10		ND	0.32	2	7/20/21	23:05	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/20/21	23:05	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/20/21	23:05	BRF
Bromoform	ND	0.10		ND	1.0	2	7/20/21	23:05	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/20/21	23:05	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/20/21	23:05	BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/20/21	23:05	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/20/21	23:05	BRF
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/20/21	23:05	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/20/21	23:05	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/20/21	23:05	BRF
Chloroform	0.31	0.10		1.5	0.49	2	7/20/21	23:05	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/20/21	23:05	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/20/21	23:05	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/20/21	23:05	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/20/21	23:05	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	23:05	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	23:05	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	23:05	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/20/21	23:05	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	23:05	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	23:05	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	23:05	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	23:05	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	23:05	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/20/21	23:05	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	23:05	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	23:05	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/20/21	23:05	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/20/21	23:05	BRF
Ethanol	18	4.0		34	7.5	2	7/20/21	23:05	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/20/21	23:05	BRF
Ethylbenzene	0.13	0.10		0.58	0.43	2	7/20/21	23:05	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/20/21	23:05	BRF
Heptane	1.3	0.10		5.5	0.41	2	7/20/21	23:05	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/20/21	23:05	BRF

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-03
Sample ID: 21G0620-08
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 11:56

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2416
 Canister Size: 3 liter
 Flow Controller ID: 4167
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -3.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/20/21 23:05	BRF	
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/20/21 23:05	BRF	
Isopropanol	9.1	4.0		22	9.8	2	7/20/21 23:05	BRF	
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/20/21 23:05	BRF	
Methylene Chloride	ND	1.0		ND	3.5	2	7/20/21 23:05	BRF	
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/20/21 23:05	BRF	
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/20/21 23:05	BRF	
Propene	ND	4.0		ND	6.9	2	7/20/21 23:05	BRF	
Styrene	ND	0.10		ND	0.43	2	7/20/21 23:05	BRF	
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/20/21 23:05	BRF	
Tetrachloroethylene	260	1.0		1700	6.8	20	7/20/21 23:29	BRF	
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/20/21 23:05	BRF	
Toluene	1.5	0.10		5.7	0.38	2	7/20/21 23:05	BRF	
1,2,4-Trichlorobenzene	ND	0.10	V-34	ND	0.74	2	7/20/21 23:05	BRF	
1,1,1-Trichloroethane	49	0.10		270	0.55	2	7/20/21 23:05	BRF	
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/20/21 23:05	BRF	
Trichloroethylene	ND	0.10		ND	0.54	2	7/20/21 23:05	BRF	
Trichlorofluoromethane (Freon 11)	2.4	0.40		14	2.2	2	7/20/21 23:05	BRF	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.77	0.40		5.9	3.1	2	7/20/21 23:05	BRF	
1,2,4-Trimethylbenzene	0.23	0.10		1.1	0.49	2	7/20/21 23:05	BRF	
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/20/21 23:05	BRF	
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/20/21 23:05	BRF	
Vinyl Chloride	ND	0.10		ND	0.26	2	7/20/21 23:05	BRF	
m&p-Xylene	0.46	0.20		2.0	0.87	2	7/20/21 23:05	BRF	
o-Xylene	0.18	0.10		0.78	0.43	2	7/20/21 23:05	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.5	70-130	7/20/21 23:29
4-Bromofluorobenzene (1)	95.6	70-130	7/20/21 23:05

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-05
Sample ID: 21G0620-09
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 12:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2351
 Canister Size: 3 liter
 Flow Controller ID: 4117
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	360	20		840	48	10	7/21/21	8:05	BRF
Benzene	0.28	0.10		0.90	0.32	2	7/20/21	23:56	BRF
Benzyl chloride	ND	0.10		ND	0.52	2	7/20/21	23:56	BRF
Bromodichloromethane	ND	0.10		ND	0.67	2	7/20/21	23:56	BRF
Bromoform	ND	0.10		ND	1.0	2	7/20/21	23:56	BRF
Bromomethane	ND	0.10		ND	0.39	2	7/20/21	23:56	BRF
1,3-Butadiene	ND	0.10		ND	0.22	2	7/20/21	23:56	BRF
2-Butanone (MEK)	ND	4.0		ND	12	2	7/20/21	23:56	BRF
Carbon Disulfide	ND	1.0		ND	3.1	2	7/20/21	23:56	BRF
Carbon Tetrachloride	0.16	0.10		0.98	0.63	2	7/20/21	23:56	BRF
Chlorobenzene	ND	0.10		ND	0.46	2	7/20/21	23:56	BRF
Chloroethane	ND	0.10		ND	0.26	2	7/20/21	23:56	BRF
Chloroform	0.81	0.10		3.9	0.49	2	7/20/21	23:56	BRF
Chloromethane	ND	0.20		ND	0.41	2	7/20/21	23:56	BRF
Cyclohexane	ND	0.10		ND	0.34	2	7/20/21	23:56	BRF
Dibromochloromethane	ND	0.10		ND	0.85	2	7/20/21	23:56	BRF
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/20/21	23:56	BRF
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	23:56	BRF
1,3-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	23:56	BRF
1,4-Dichlorobenzene	ND	0.10		ND	0.60	2	7/20/21	23:56	BRF
Dichlorodifluoromethane (Freon 12)	ND	0.10		ND	0.49	2	7/20/21	23:56	BRF
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	23:56	BRF
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/20/21	23:56	BRF
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	23:56	BRF
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	23:56	BRF
trans-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	7/20/21	23:56	BRF
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/20/21	23:56	BRF
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	23:56	BRF
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/20/21	23:56	BRF
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/20/21	23:56	BRF
1,4-Dioxane	ND	1.0		ND	3.6	2	7/20/21	23:56	BRF
Ethanol	16	4.0		31	7.5	2	7/20/21	23:56	BRF
Ethyl Acetate	ND	1.0		ND	3.6	2	7/20/21	23:56	BRF
Ethylbenzene	0.16	0.10		0.71	0.43	2	7/20/21	23:56	BRF
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/20/21	23:56	BRF
Heptane	ND	0.10		ND	0.41	2	7/20/21	23:56	BRF
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/20/21	23:56	BRF

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ANALYTICAL RESULTS

Project Location: Springfield, VT
 Date Received: 7/13/2021
Field Sample #: 65P-SG-05
Sample ID: 21G0620-09
 Sample Matrix: Soil Gas
 Sampled: 7/9/2021 12:09

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2351
 Canister Size: 3 liter
 Flow Controller ID: 4117
 Sample Type: 30 min

Work Order: 21G0620
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/20/21	23:56	BRF
2-Hexanone (MBK)	ND	0.20		ND	0.82	2	7/20/21	23:56	BRF
Isopropanol	6.3	4.0		15	9.8	2	7/20/21	23:56	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/20/21	23:56	BRF
Methylene Chloride	ND	1.0		ND	3.5	2	7/20/21	23:56	BRF
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/20/21	23:56	BRF
Naphthalene	ND	0.10	Z-01	ND	0.52	2	7/20/21	23:56	BRF
Propene	ND	4.0		ND	6.9	2	7/20/21	23:56	BRF
Styrene	ND	0.10		ND	0.43	2	7/20/21	23:56	BRF
1,1,2,2-Tetrachloroethane	ND	0.10		ND	0.69	2	7/20/21	23:56	BRF
Tetrachloroethylene	33	0.10		220	0.68	2	7/20/21	23:56	BRF
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/20/21	23:56	BRF
Toluene	1.9	0.10		7.2	0.38	2	7/20/21	23:56	BRF
1,2,4-Trichlorobenzene	ND	0.10	V-34	ND	0.74	2	7/20/21	23:56	BRF
1,1,1-Trichloroethane	8.0	0.10		44	0.55	2	7/20/21	23:56	BRF
1,1,2-Trichloroethane	ND	0.10		ND	0.55	2	7/20/21	23:56	BRF
Trichloroethylene	ND	0.10		ND	0.54	2	7/20/21	23:56	BRF
Trichlorofluoromethane (Freon 11)	2.5	0.40		14	2.2	2	7/20/21	23:56	BRF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/20/21	23:56	BRF
1,2,4-Trimethylbenzene	0.34	0.10		1.7	0.49	2	7/20/21	23:56	BRF
1,3,5-Trimethylbenzene	0.12	0.10		0.58	0.49	2	7/20/21	23:56	BRF
Vinyl Acetate	ND	2.0	V-05	ND	7.0	2	7/20/21	23:56	BRF
Vinyl Chloride	ND	0.10		ND	0.26	2	7/20/21	23:56	BRF
m&p-Xylene	0.69	0.20		3.0	0.87	2	7/20/21	23:56	BRF
o-Xylene	0.27	0.10		1.2	0.43	2	7/20/21	23:56	BRF
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	92.8			70-130					
4-Bromofluorobenzene (1)	96.1			70-130					
				7/21/21 8:05					
				7/20/21 23:56					

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Sample Extraction Data
Prep Method: TO-15 Prep Analytical Method: EP

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
21G0620-01 [100R-SG-08]	B286460	1.5	1	N/A	1000	200	150	07/20/21
21G0620-01RE1 [100R-SG-08]	B286460	1.5	1	N/A	1000	200	30	07/20/21
21G0620-02 [100R-SG-07]	B286460	1.5	1	N/A	1000	200	150	07/20/21
21G0620-02RE1 [100R-SG-07]	B286460	1.5	1	N/A	1000	200	10	07/20/21
21G0620-03 [100R-SG-06]	B286460	1.5	1	N/A	1000	200	150	07/20/21
21G0620-03RE1 [100R-SG-06]	B286460	1.5	1	N/A	1000	200	10	07/20/21
21G0620-04 [100R-SG-05]	B286460	1.5	1	N/A	1000	200	150	07/20/21
21G0620-04RE1 [100R-SG-05]	B286460	1.5	1	N/A	1000	200	10	07/20/21
21G0620-05 [65P-SG-02]	B286460	1.5	1	N/A	1000	200	10	07/20/21
21G0620-06 [65P-SG-02-FD]	B286460	1.5	1	N/A	1000	200	10	07/20/21
21G0620-07 [65P-SG-01]	B286460	1.5	1	N/A	1000	200	150	07/20/21
21G0620-07RE1 [65P-SG-01]	B286460	1.5	1	N/A	1000	200	10	07/20/21
21G0620-08 [65P-SG-03]	B286460	1.5	1	N/A	1000	200	150	07/20/21
21G0620-08RE1 [65P-SG-03]	B286460	1.5	1	N/A	1000	200	15	07/20/21
21G0620-09 [65P-SG-05]	B286460	1.5	1	N/A	1000	200	150	07/20/21
21G0620-09RE1 [65P-SG-05]	B286460	1.5	1	N/A	1000	200	30	07/20/21

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B286460 - TO-15 Prep
Blank (B286460-BLK1)

Prepared & Analyzed: 07/20/21

Acetone	ND	0.80
Benzene	ND	0.020
Benzyl chloride	ND	0.020
Bromodichloromethane	ND	0.020
Bromoform	ND	0.020
Bromomethane	ND	0.020
1,3-Butadiene	ND	0.020
2-Butanone (MEK)	ND	0.80
Carbon Disulfide	ND	0.20
Carbon Tetrachloride	ND	0.020
Chlorobenzene	ND	0.020
Chloroethane	ND	0.020
Chloroform	ND	0.020
Chloromethane	ND	0.040
Cyclohexane	ND	0.020
Dibromochloromethane	ND	0.020
1,2-Dibromoethane (EDB)	ND	0.020
1,2-Dichlorobenzene	ND	0.020
1,3-Dichlorobenzene	ND	0.020
1,4-Dichlorobenzene	ND	0.020
Dichlorodifluoromethane (Freon 12)	ND	0.020
1,1-Dichloroethane	ND	0.020
1,2-Dichloroethane	ND	0.020
1,1-Dichloroethylene	ND	0.020
cis-1,2-Dichloroethylene	ND	0.020
trans-1,2-Dichloroethylene	ND	0.020
1,2-Dichloropropane	ND	0.020
cis-1,3-Dichloropropene	ND	0.020
trans-1,3-Dichloropropene	ND	0.020
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.020
1,4-Dioxane	ND	0.20
Ethanol	ND	0.80
Ethyl Acetate	ND	0.20
Ethylbenzene	ND	0.020
4-Ethyltoluene	ND	0.020
Heptane	ND	0.020
Hexachlorobutadiene	ND	0.020
Hexane	ND	0.80
2-Hexanone (MBK)	ND	0.020
Isopropanol	ND	0.80
Methyl tert-Butyl Ether (MTBE)	ND	0.020
Methylene Chloride	ND	0.20
4-Methyl-2-pentanone (MIBK)	ND	0.020
Naphthalene	ND	0.020
Propene	ND	0.80
Styrene	ND	0.020

Z-01

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	
Batch B286460 - TO-15 Prep										
Blank (B286460-BLK1)					Prepared & Analyzed: 07/20/21					
1,1,2,2-Tetrachloroethane	ND	0.020								
Tetrachloroethylene	ND	0.020								
Tetrahydrofuran	ND	0.20								
Toluene	ND	0.020								
1,2,4-Trichlorobenzene	ND	0.020								V-34
1,1,1-Trichloroethane	ND	0.020								
1,1,2-Trichloroethane	ND	0.020								
Trichloroethylene	ND	0.020								
Trichlorofluoromethane (Freon 11)	ND	0.080								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.080								
1,2,4-Trimethylbenzene	ND	0.020								
1,3,5-Trimethylbenzene	ND	0.020								
Vinyl Acetate	ND	0.40								V-05
Vinyl Chloride	ND	0.020								
m&p-Xylene	ND	0.040								
o-Xylene	ND	0.020								
Surrogate: 4-Bromofluorobenzene (1)	7.62				8.00		95.2	70-130		
LCS (B286460-BS1)					Prepared & Analyzed: 07/20/21					
Acetone	4.56				5.00		91.3	70-130		
Benzene	4.50				5.00		90.1	70-130		
Benzyl chloride	4.85				5.00		96.9	70-130		
Bromodichloromethane	4.88				5.00		97.6	70-130		
Bromoform	4.94				5.00		98.7	70-130		
Bromomethane	4.03				5.00		80.7	70-130		
1,3-Butadiene	3.66				5.00		73.2	70-130		
2-Butanone (MEK)	4.68				5.00		93.7	70-130		
Carbon Disulfide	4.37				5.00		87.5	70-130		
Carbon Tetrachloride	4.63				5.00		92.6	70-130		
Chlorobenzene	4.39				5.00		87.8	70-130		
Chloroethane	3.98				5.00		79.5	70-130		
Chloroform	4.44				5.00		88.8	70-130		
Chloromethane	4.05				5.00		80.9	70-130		
Cyclohexane	4.46				5.00		89.3	70-130		
Dibromochloromethane	4.69				5.00		93.8	70-130		
1,2-Dibromoethane (EDB)	4.68				5.00		93.6	70-130		
1,2-Dichlorobenzene	4.95				5.00		98.9	70-130		
1,3-Dichlorobenzene	5.04				5.00		101	70-130		
1,4-Dichlorobenzene	4.84				5.00		96.7	70-130		
Dichlorodifluoromethane (Freon 12)	4.14				5.00		82.9	70-130		
1,1-Dichloroethane	4.41				5.00		88.3	70-130		
1,2-Dichloroethane	4.58				5.00		91.6	70-130		
1,1-Dichloroethylene	4.56				5.00		91.2	70-130		
cis-1,2-Dichloroethylene	4.36				5.00		87.2	70-130		
trans-1,2-Dichloroethylene	4.30				5.00		86.0	70-130		
1,2-Dichloropropane	4.68				5.00		93.5	70-130		

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	
Batch B286460 - TO-15 Prep										
LCS (B286460-BS1)					Prepared & Analyzed: 07/20/21					
cis-1,3-Dichloropropene	4.41				5.00		88.3	70-130		
trans-1,3-Dichloropropene	4.82				5.00		96.3	70-130		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	3.82				5.00		76.4	70-130		
1,4-Dioxane	4.82				5.00		96.3	70-130		
Ethanol	5.04				5.00		101	70-130		
Ethyl Acetate	3.99				5.00		79.9	70-130		
Ethylbenzene	4.49				5.00		89.9	70-130		
4-Ethyltoluene	4.68				5.00		93.6	70-130		
Heptane	4.66				5.00		93.3	70-130		
Hexachlorobutadiene	4.63				5.00		92.5	70-130		
Hexane	4.70				5.00		93.9	70-130		
2-Hexanone (MBK)	5.51				5.00		110	70-130		
Isopropanol	4.12				5.00		82.3	70-130		
Methyl tert-Butyl Ether (MTBE)	4.17				5.00		83.4	70-130		
Methylene Chloride	4.97				5.00		99.5	70-130		
4-Methyl-2-pentanone (MIBK)	4.96				5.00		99.2	70-130		
Naphthalene	3.37				5.00		67.3 *	70-130		Z-01
Propene	3.95				5.00		78.9	70-130		
Styrene	4.53				5.00		90.7	70-130		
1,1,2,2-Tetrachloroethane	4.78				5.00		95.5	70-130		
Tetrachloroethylene	4.57				5.00		91.3	70-130		
Tetrahydrofuran	4.38				5.00		87.7	70-130		
Toluene	4.47				5.00		89.4	70-130		
1,2,4-Trichlorobenzene	3.80				5.00		76.0	70-130		V-34
1,1,1-Trichloroethane	4.54				5.00		90.7	70-130		
1,1,2-Trichloroethane	4.57				5.00		91.4	70-130		
Trichloroethylene	4.75				5.00		95.0	70-130		
Trichlorofluoromethane (Freon 11)	4.21				5.00		84.2	70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.41				5.00		88.2	70-130		
1,2,4-Trimethylbenzene	4.75				5.00		95.0	70-130		
1,3,5-Trimethylbenzene	4.69				5.00		93.7	70-130		
Vinyl Acetate	4.69				5.00		93.8	70-130		V-05
Vinyl Chloride	4.04				5.00		80.9	70-130		
m&p-Xylene	9.62				10.0		96.2	70-130		
o-Xylene	4.65				5.00		93.0	70-130		
Surrogate: 4-Bromofluorobenzene (1)	8.06				8.00		101	70-130		

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
Z-01	Compound fails the method requirement of 70-130% recovery for the LCS. Is classified by the lab as a difficult compound and passes the in house limits of 50-150%.

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S052381-ICV1)			Lab File ID: J2025821.D			Analyzed: 09/14/20 23:22			
Bromochloromethane (1)	159501	2.873	155833	2.873	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	756714	3.475	745760	3.475	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	686740	5.06	671608	5.057	102	60 - 140	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S061701-CCV1)			Lab File ID: J21A201004.D			Analyzed: 07/20/21 09:57			
Bromochloromethane (1)	182512	2.869	155833	2.873	117	60 - 140	-0.0040	+/-0.50	
1,4-Difluorobenzene (1)	801672	3.474	745760	3.475	107	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	728492	5.056	671608	5.057	108	60 - 140	-0.0010	+/-0.50	
LCS (B286460-BS1)			Lab File ID: J21A201005.D			Analyzed: 07/20/21 10:22			
Bromochloromethane (1)	184260	2.867	182512	2.869	101	60 - 140	-0.0020	+/-0.50	
1,4-Difluorobenzene (1)	806263	3.472	801672	3.474	101	60 - 140	-0.0020	+/-0.50	
Chlorobenzene-d5 (1)	738507	5.057	728492	5.056	101	60 - 140	0.0010	+/-0.50	
Blank (B286460-BLK1)			Lab File ID: J21A201008.D			Analyzed: 07/20/21 11:51			
Bromochloromethane (1)	174600	2.856	182512	2.869	96	60 - 140	-0.0130	+/-0.50	
1,4-Difluorobenzene (1)	710095	3.465	801672	3.474	89	60 - 140	-0.0090	+/-0.50	
Chlorobenzene-d5 (1)	648888	5.053	728492	5.056	89	60 - 140	-0.0030	+/-0.50	
100R-SG-08 (21G0620-01)			Lab File ID: J21A201019.D			Analyzed: 07/20/21 17:53			
Bromochloromethane (1)	177912	2.86	182512	2.869	97	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	730777	3.468	801672	3.474	91	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	685959	5.053	728492	5.056	94	60 - 140	-0.0030	+/-0.50	
100R-SG-08 (21G0620-01RE1)			Lab File ID: J21A201020.D			Analyzed: 07/20/21 18:19			
Bromochloromethane (1)	181128	2.86	182512	2.869	99	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	731375	3.468	801672	3.474	91	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	674960	5.054	728492	5.056	93	60 - 140	-0.0020	+/-0.50	
100R-SG-07 (21G0620-02)			Lab File ID: J21A201021.D			Analyzed: 07/20/21 18:46			
Bromochloromethane (1)	178488	2.86	182512	2.869	98	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	732153	3.469	801672	3.474	91	60 - 140	-0.0050	+/-0.50	
Chlorobenzene-d5 (1)	697277	5.054	728492	5.056	96	60 - 140	-0.0020	+/-0.50	
100R-SG-07 (21G0620-02RE1)			Lab File ID: J21A201022.D			Analyzed: 07/20/21 19:11			
Bromochloromethane (1)	174340	2.86	182512	2.869	96	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	701768	3.468	801672	3.474	88	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	647651	5.054	728492	5.056	89	60 - 140	-0.0020	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
100R-SG-06 (21G0620-03) Lab File ID: J21A201023.D Analyzed: 07/20/21 19:38									
Bromochloromethane (1)	186675	2.863	182512	2.869	102	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	779227	3.468	801672	3.474	97	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	718621	5.053	728492	5.056	99	60 - 140	-0.0030	+/-0.50	
100R-SG-06 (21G0620-03RE1) Lab File ID: J21A201024.D Analyzed: 07/20/21 20:03									
Bromochloromethane (1)	178056	2.86	182512	2.869	98	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	719508	3.468	801672	3.474	90	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	667649	5.054	728492	5.056	92	60 - 140	-0.0020	+/-0.50	
100R-SG-05 (21G0620-04) Lab File ID: J21A201025.D Analyzed: 07/20/21 20:30									
Bromochloromethane (1)	170349	2.857	182512	2.869	93	60 - 140	-0.0120	+/-0.50	
1,4-Difluorobenzene (1)	701648	3.465	801672	3.474	88	60 - 140	-0.0090	+/-0.50	
Chlorobenzene-d5 (1)	651314	5.054	728492	5.056	89	60 - 140	-0.0020	+/-0.50	
65P-SG-02 (21G0620-05) Lab File ID: J21A201027.D Analyzed: 07/20/21 21:20									
Bromochloromethane (1)	180751	2.863	182512	2.869	99	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	738196	3.468	801672	3.474	92	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	695473	5.053	728492	5.056	95	60 - 140	-0.0030	+/-0.50	
65P-SG-02-FD (21G0620-06) Lab File ID: J21A201028.D Analyzed: 07/20/21 21:46									
Bromochloromethane (1)	176802	2.86	182512	2.869	97	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	736133	3.468	801672	3.474	92	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	682438	5.054	728492	5.056	94	60 - 140	-0.0020	+/-0.50	
65P-SG-01 (21G0620-07) Lab File ID: J21A201029.D Analyzed: 07/20/21 22:13									
Bromochloromethane (1)	179584	2.866	182512	2.869	98	60 - 140	-0.0030	+/-0.50	
1,4-Difluorobenzene (1)	735038	3.471	801672	3.474	92	60 - 140	-0.0030	+/-0.50	
Chlorobenzene-d5 (1)	696590	5.056	728492	5.056	96	60 - 140	0.0000	+/-0.50	
65P-SG-01 (21G0620-07RE1) Lab File ID: J21A201030.D Analyzed: 07/20/21 22:37									
Bromochloromethane (1)	176424	2.863	182512	2.869	97	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	711509	3.468	801672	3.474	89	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	666435	5.054	728492	5.056	91	60 - 140	-0.0020	+/-0.50	
65P-SG-03 (21G0620-08) Lab File ID: J21A201031.D Analyzed: 07/20/21 23:05									
Bromochloromethane (1)	174184	2.863	182512	2.869	95	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	718053	3.468	801672	3.474	90	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	659599	5.054	728492	5.056	91	60 - 140	-0.0020	+/-0.50	
65P-SG-03 (21G0620-08RE1) Lab File ID: J21A201032.D Analyzed: 07/20/21 23:29									
Bromochloromethane (1)	171016	2.86	182512	2.869	94	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	678031	3.468	801672	3.474	85	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	625958	5.054	728492	5.056	86	60 - 140	-0.0020	+/-0.50	

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
65P-SG-05 (21G0620-09) Lab File ID: J21A201033.D Analyzed: 07/20/21 23:56									
Bromochloromethane (1)	173568	2.86	182512	2.869	95	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	699864	3.469	801672	3.474	87	60 - 140	-0.0050	+/-0.50	
Chlorobenzene-d5 (1)	649713	5.054	728492	5.056	89	60 - 140	-0.0020	+/-0.50	
100R-SG-05 (21G0620-04RE1) Lab File ID: J21A201036.D Analyzed: 07/21/21 07:39									
Bromochloromethane (1)	154993	2.857	182512	2.869	85	60 - 140	-0.0120	+/-0.50	
1,4-Difluorobenzene (1)	606553	3.465	801672	3.474	76	60 - 140	-0.0090	+/-0.50	
Chlorobenzene-d5 (1)	560723	5.053	728492	5.056	77	60 - 140	-0.0030	+/-0.50	
65P-SG-05 (21G0620-09RE1) Lab File ID: J21A201037.D Analyzed: 07/21/21 08:05									
Bromochloromethane (1)	167929	2.86	182512	2.869	92	60 - 140	-0.0090	+/-0.50	
1,4-Difluorobenzene (1)	660187	3.468	801672	3.474	82	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	621108	5.053	728492	5.056	85	60 - 140	-0.0030	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061701-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.83	0.9103154	0.8788902		-3.5	30
Benzene	A	5.00	4.84	0.6606025	0.6388348		-3.3	30
Benzyl chloride	A	5.00	5.18	0.5965762	0.617934		3.6	30
Bromodichloromethane	A	5.00	5.14	0.4537953	0.4668084		2.9	30
Bromoform	A	5.00	5.12	0.6600998	0.6762419		2.4	30
Bromomethane	A	5.00	4.24	1.001177	0.8496976		-15.1	30
1,3-Butadiene	A	5.00	4.12	0.6246902	0.5153239		-17.5	30
2-Butanone (MEK)	A	5.00	4.82	1.30749	1.260682		-3.6	30
Carbon Disulfide	A	5.00	4.65	2.466469	2.293294		-7.0	30
Carbon Tetrachloride	A	5.00	4.80	0.5064752	0.4864573		-4.0	30
Chlorobenzene	A	5.00	4.73	0.7751296	0.7337547		-5.3	30
Chloroethane	A	5.00	4.04	0.5001442	0.4045323		-19.1	30
Chloroform	A	5.00	4.67	2.018779	1.885272		-6.6	30
Chloromethane	A	5.00	4.43	0.6141491	0.5443412		-11.4	30
Cyclohexane	A	5.00	4.75	0.2849344	0.2707222		-5.0	30
Dibromochloromethane	A	5.00	4.93	0.6429615	0.6334642		-1.5	30
1,2-Dibromoethane (EDB)	A	5.00	4.98	0.4841019	0.4823136		-0.4	30
1,2-Dichlorobenzene	A	5.00	5.14	0.6846313	0.7040319		2.8	30
1,3-Dichlorobenzene	A	5.00	5.22	0.7215992	0.7537521		4.5	30
1,4-Dichlorobenzene	A	5.00	5.14	0.7134896	0.7332671		2.8	30
Dichlorodifluoromethane (Freon 12)	A	5.00	4.38	2.507091	2.197133		-12.4	30
1,1-Dichloroethane	A	5.00	4.48	1.545303	1.385237		-10.4	30
1,2-Dichloroethane	A	5.00	4.80	1.058805	1.01734		-3.9	30
1,1-Dichloroethylene	A	5.00	4.72	1.160287	1.09588		-5.6	30
cis-1,2-Dichloroethylene	A	5.00	4.57	1.114268	1.019137		-8.5	30
trans-1,2-Dichloroethylene	A	5.00	4.60	1.201908	1.106382		-7.9	30
1,2-Dichloropropane	A	5.00	4.66	0.2231134	0.2077239		-6.9	30
cis-1,3-Dichloropropene	A	5.00	4.66	0.3628898	0.3382451		-6.8	30
trans-1,3-Dichloropropene	A	5.00	4.82	0.3055463	0.2947081		-3.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	4.26	2.650055	2.260761		-14.7	30
1,4-Dioxane	A	5.00	5.02	0.139387	0.1398677		0.3	30
Ethanol	A	5.00	3.81	0.1702165	0.12978		-23.8	30
Ethyl Acetate	A	5.00	5.38	0.2280188	0.2454019		7.6	30
Ethylbenzene	A	5.00	4.90	1.161395	1.13769		-2.0	30
4-Ethyltoluene	A	5.00	4.93	1.262817	1.244368		-1.5	30
Heptane	A	5.00	5.02	0.1688454	0.1694239		0.3	30
Hexachlorobutadiene	A	5.00	4.91	0.6918294	0.6799976		-1.7	30
Hexane	L	5.00	4.95	0.6531603	0.642921		-0.9	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S061701-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.72	0.280065	0.3204098		14.4	30
Isopropanol	A	5.00	5.14	1.001981	1.029324		2.7	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.48	2.512535	2.253467		-10.3	30
Methylene Chloride	A	5.00	5.14	0.6621826	0.6809328		2.8	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.24	0.1531114	0.1604507		4.8	30
Naphthalene	A	5.00	4.20	1.086932	0.9119441		-16.1	30
Propene	A	5.00	4.20	0.4641749	0.3895327		-16.1	30
Styrene	A	5.00	4.78	0.7056488	0.6740851		-4.5	30
1,1,2,2-Tetrachloroethane	A	5.00	4.89	0.638583	0.624881		-2.1	30
Tetrachloroethylene	A	5.00	4.92	0.5546794	0.5456247		-1.6	30
Tetrahydrofuran	A	5.00	4.86	0.7143044	0.6937232		-2.9	30
Toluene	A	5.00	4.78	0.9345011	0.8932622		-4.4	30
1,2,4-Trichlorobenzene	A	5.00	3.96	0.4260284	0.3377498		-20.7	30
1,1,1-Trichloroethane	A	5.00	4.91	0.4496133	0.4415292		-1.8	30
1,1,2-Trichloroethane	A	5.00	4.70	0.3281373	0.3086859		-5.9	30
Trichloroethylene	A	5.00	5.03	0.2979469	0.299536		0.5	30
Trichlorofluoromethane (Freon 11)	A	5.00	4.44	2.536841	2.251845		-11.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	4.46	1.957735	1.746261		-10.8	30
1,2,4-Trimethylbenzene	A	5.00	4.91	1.026744	1.00813		-1.8	30
1,3,5-Trimethylbenzene	A	5.00	5.07	1.080978	1.095985		1.4	30
Vinyl Acetate	A	5.00	3.34	1.400965	0.937363		-33.1	30 *
Vinyl Chloride	A	5.00	4.22	0.8554634	0.722232		-15.6	30
m&p-Xylene	A	10.0	10.3	0.9185043	0.9431461		2.7	30
o-Xylene	A	5.00	4.90	0.899786	0.8818084		-2.0	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

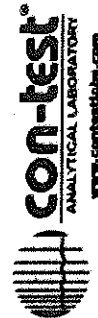


Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: <u>Stone Environmental Inc</u>		Requested Turnaround Time		7-Day ☒ 10-Day ☐		Due Date:		Please fill out completely, sign, date and retain the yellow copy for your records	
Address: <u>535 Stone Cutters Way, Montpelier VT</u>		Rush Approval Required		1-Day ☐ 3-Day ☐		2-Day ☐ 4-Day ☐		Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply	
Phone: <u>802 279 8174</u>		Data Delivery		Format: PDF ☒ EXCEL ☐		Other: <u>EQUIS END</u>		For summa canister and flow controller information please refer to Con-Test's Air Media Agreement	
Project Name: <u>ICP Springfield</u>		CLP Like Data Required		CLP Like Data Required ☐		Email To: <u>dvoisin@stone-env.com</u>		Summa Can ID	
Project Location: <u>Springfield VT</u>		Flow Rate		Duration		Total Minutes Sampled		Flow Controller ID	
Project Number: <u>19-124</u>		Beginning Date/Time		Ending Date/Time		Matrix		Code	
Project Manager: <u>Dan Voisin</u>		Client Use		Client Sample ID / Description		Collection Data		Volume	
Con-Test Quote Name/Number:		Lab Use		Con-Test Work Order#		Beginning Date/Time		Ending Date/Time	
Invoice Recipient: <u>accounting, 55 State - 1st floor</u>		Client Use		Client Sample ID / Description		Collection Data		Volume	
Sampled By: <u>Jana Rignak / 11a Vis</u>		Lab Use		Con-Test Work Order#		Beginning Date/Time		Ending Date/Time	
		01		100R-SG-08		7/19/21 8:39		9:11	
		02		100R-SG-07		8:57		9:27	
		03		100R-SG-06		9:15		9:44	
		04		100R-SG-05		9:34		10:00	
		05		65P-SG-08		7/19/21 11:07		11:33	
		06		65P-SG-02-FD		11:07		11:35	
		07		65P-SG-01		11:18		11:52	
		08		65P-SG-03		11:29		11:56	
		09		65P-SG-045		11:41		12:09	

Comments: <u>Do not analyze canisters 2262 - bad filling, can went to zero in 15 mins.</u>		Please use the following codes to indicate possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown	
Relinquished by: (Signature) <u>[Signature]</u>		Date/Time: <u>1600/7/12/21</u>	
Received by: (Signature) <u>[Signature]</u>		Date/Time: <u>7/13/21 11 am</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Date/Time: <u>7/13/21 11 am</u>	
Received by: (Signature) <u>[Signature]</u>		Date/Time: <u>7/13/21 11 am</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Date/Time: <u>7/13/21 11 am</u>	
Received by: (Signature) <u>[Signature]</u>		Date/Time: <u>7/13/21 11 am</u>	

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other



Project Entity		Project Entity	
☐ Government	☐ Municipality	☐ WRTA	☐ Chromatogram
☐ Federal	☐ 21 J	☐ School	☐ AIHA-LAP, LLC
☐ City	☒ Brownfield	☐ MBTA	☐ Non Soxhlet
Other		Other	
NELAP and AIHA-LAP, LLC Accredited		PCB ONLY	

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before
Relinquishing Over
Samples _____



con-test®
ANALYTICAL LABORATORY

Doc# 278 Rev 6 2017

**Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False**

Client Stone Environmental

Received By RUF Date 7/13/21 Time 1805
How were the samples received? In Cooler _____ On Ice _____ No Ice _____
In Box T Ambient _____ Melted Ice _____
Were samples within Temperature Compliance? 2-6°C LA By Gun # _____ Actual Temp - _____
By Blank # _____ Actual Temp - _____
Was Custody Seal Intact? LA Were Samples Tampered with? LA
Was COC Relinquished? T Does Chain Agree With Samples? T
Are there any loose caps/valves on any samples? F
Is COC in ink/ Legible? T
Did COC Include all Client T Analysis T Sampler Name T
Pertinent Information? Project T ID's T Collection Dates/Times T
Are Sample Labels filled out and legible? T
Are there Rushes? F Who was notified? _____
Samples are received within holding time? T
Proper Media Used? T Individually Certified Cans? F
Are there Trip Blanks? F Is there enough Volume? T

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans	<u>10</u>	<u>3L</u>	<u>10</u>	<u>30min</u>	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

Can #'s					Reg #'s				
<u>2269</u>	<u>2424</u>				<u>4111</u>	<u>4055</u>			
<u>2439</u>	<u>24110</u>				<u>4242</u>	<u>4167</u>			
<u>2388</u>	<u>2357</u>				<u>4261</u>	<u>4117</u>			
<u>2359</u>					<u>4125</u>				
<u>2350</u>					<u>4334</u>				
<u>2380</u>					<u>4335</u>				
Unused Media					Pufs/TO-17's				
<u>2262</u>	<u>(-0.1)</u>	<u>4138</u>							

Comments:

Can #2262 received with valve open all the way